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## FIGURE 4251

ATGTATAATATATCTAACTGTGGGTCACAGCCCCCTCCCACGACCGTCCACAAACCAGTAGCCTCCCTTCGCTCC
CACCTCCGCGCCGACGGGCCTGGAGCTCCTCCGCACACCACACCAAGCCGACCACTCAACACCAGAGGACCCACA
GAAGAATTCTCTCCACGCCCACCCCCACAGCATCGGCCTTCACCACCGCCGCCGCTGCCGGAAGCGCCCCCACGT
CTCCACGCCACCACCGTGAGTGCTCAGTGTGGGCCCCCTTCCTGTTATTGTGAACTGTTAGCCAAGATACGGCTT
GGTGATGAGAAGTGCAACATCTCTTGTAACCCCAGTGCACCAGTCCAGGGGTGTGGAGAG

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# FIGURE 4252

ATGGCGGCTGCGCCGGCCTTGAAGCACTGGCGCACCACGCTGGAGCGGGTGGAGAAGTTCGTGTCGCCGCTCTAC
TTTACCGACTGTAACCTCCGCGGCAGGCTTTTTGGGGCCAGCTGCCCTGTGGCTGTGCTCTCCAGCTTCCTGACG
CCGGAGAGACTTCCCTACCAGGAGGCAGTCCAGCGGGACTTCCGCCCCGCGCAGGTCGGCGACAGCTTCGGACCC
ACATGGTGGACCTGCTGGTTCCGGGTGGAGCTGACCATCCCAGAGGCATGGGTGGGCCAGGAAGTTCACCTTTGC
TGGGAAAGTGATGGAGAAGGTCTGGTGTGGCGTGATGGAGAACCTGTCCAGGGTTTAACCAAAGAGGGTGAGAAG
ACCAGCTATGTCCTGACTGACAGGCTGGGGGAAAGAGACCCCCGAAGCCTCACTCTCTATGTGGAAGTAGCCTGC
AATGGGCTCCTGGGGGCCGGGAAGGGAAGCATGATTGCAGCCCCTGACCCTGAGAAGATGTTCCAGCTGAGCCGG
GCTGAGCTAGCTGTGTTCCACCGGGATGTCCACATGCTCCTGGTGGATCTGGAGCTGCTGCTGGGCATAGCCAAG
GGCCTCGGGAAGGACAACCAGCGCAGCTTCCAGGCCCTGTACACAGCCAATCAGATGGTGAACGTGTGTGACCCT
GCCCAGCCCGAGACCTTCCCAGTGGCCCAGGCCCTGGCCTCCAGGTTCTTTGGCCAACATGGGGGTGAAAGCCAA
CACACCATTCATGCCACAGGGCACTGCCACATTGATACAGCCTGGCTTTGGCCCTTCAAAGAGACTGTGAGGAAA
TGTGCCCGGAGCTGGGTGACCGCCCTGCAGCTCATGGAGCGGAACCCTGAGTTCATCTTTGCCTGCTCCCAGGCG
CAGCAGCTGGAATGGGTGAAGAGCCGCTACCCTGGCCTGTACTCCCGCATCCAGGAGTTTGCGTGCCGTGGGCAG
TTTGTGCCTGTGGGGGGCACCTGGGTGGAGATGGATGGGAACCTGCCCAGTGGAGAGGCCATGGTGAGGCAGTTT
TTGCAGGGCCAGAACTTCTTTCTGCAGGAGTTTGGGAAGATGTGCTCTGAGTTCTGGCTGCCGGACACCTTTGGC
TACTCAGCACAGCTCCCCCAGATCATGCACGGCTGTGGCATCAGGCGCTTTCTCACCCAGAAATTGAGCTGGAAT
TTGGTGAACTCCTTCCCACACCATACATTTTTCTGGGAGGGCCTGGATGGCTCCCGTGTACTGGTCCACTTCCCA
CCTGGCGACTCCTATGGGATGCAGGGCAGCGTGGAGGAGGTGCTGAAGACCGTGGCCAACAACCGGGACAAGGGG
CGGGCCAACCACAGTGCCTTCCTCTTTGGCTTTGGGG**ATG**GGGGTGGTGGCCCCACCCAGACCATGCTGGACCGC
CTGAAGCGCCTGAGCAATACGGATGGGCTGCCCAGGGTGCAGCTATCTTCTCCAAGACAGCTCTTCTCAGCACTG
GAGAGTGACTCAGAGCAGCTGTGCACGTGGGTTGGGGAGCTCTTCTTGGAGCTGCACAATGGCACATACACCACC
CATGCCCAGATCAAGAAGGGGAACCGGGAATGTGAGCGGATCCTGCACGACGTGGAGCTGCTCAGTAGCCTGGCC
CTGGCCCGCAGTGCCCAGTTCCTATACCCAGCAGCCCAGCTGCAGCACCTCTGGAGGCTCCTTCTTCTGAACCAG
TTCCATGATGTGGTGACTGGAAGCTGCATCCAGATGGTGGCAGAGGAAGCCATGTGCCATTATGAAGACATCCGT
TCCCATGGCAATACACTGCTCAGCGCTGCAGCCGCAGCCCTGTGTGCTGGGGAGCCAGGTCCTGAGGGCCTCCTC
ATCGTCAACACACTGCCCTGGAAGCGGATCGAAGTGATGGCCCTGCCCAAACCGGGCGGGGCCCACAGCCTAGCC
CTGGTGACAGTGCCCAGCATGGGCTATGCTCCTGTTCCTCCCCCCACCTCACTGCAGCCCCTGCTGCCCCAGCAG
CCTGTGTTCGTAGTGCAAGAGACTGATGGCTCCGTGACTCTGGACAATGGCATCATCCGAGTGAAGCTGGACCCA
ACTGGTCGCCTGACGTCCTTGGTCCTGGTGGCCTCTGGCAGGGAGGCCATTGCTGAGGGCGCCGTGGGGAACCAG
TTTGTGCTATTTGATGATGTCCCCTTGTACTGGGATGCATGGGACGTCATGGACTACCACCTGGAGACACGGAAG
CCTGTGCTGGGCCAGGCAGGGACCCTGGCAGTGGGCACCGAGGGCGGCCTGCGGGGCAGCGCCTGGTTCTTGCTA
CAGATCAGCCCCAACAGTCGGCTTAGCCAGGAGGTTGTGCTGGATGTTGGCTGCCCCTATGTCCGCTTCCACACC
GAGGTACACTGGCATGAGGCCCACAAGTTCCTGAAGGTGGAGTTCCCTGCTCGCGTGCGGAGTTCCCAGGCCACC
TATGAGATCCAGTTTGGGCACCTGCAGCGACCTACCCACTACAATACCTCTTGGGACTGGGCTCGATTGAGGTG
TGGGCCCATCGCTGGATGGATCTGTCAGAACACGGCTTTGGGCTGGCCCTGCTCAACGACTGCAAGTATGGCGCG
TCAGTGCGAGGCAGCATCCTCAGCCTCTCGCTCTTGCGGGGCGCCTAAAGCCCCGGACGCTACTGCTGACACGGGG
CGCCACGAGTTCACCTATGCACTGATGCCGCACAAGGGCTCTTTCCAGGATGCTGGCGTTATCCAAGCTGCCTAC
AGCCTAAACTTCCCCCTGTTGGCTCTGCCAGCCCCCAGCCCAGCGCCCGCCACCTCCTGGAGTGCGTTTTCCGTG
TCTTCACCCGCGGTCGTATTGGAGACCGTCAAGCAGGCGGAGAGCAGCCCCCAGCGCCGCTCGCTGGTCCTGAGG
CTGTATGAGGCCCACGGCAGCCACGTGGACTGCTGGCTGCACTTGTCGCTGCCGGTTCAGGAGGCCATCCTCTGC
GATCTCTTGGAGCGACCAGACCCTGCTGGCCACTTGACCCTTCGGGACAACCGCCTGAAGCTCACCTTTTCTCCC
TTCCAAGTGCTGTCCCTGTTGCTCGTGCTTCAGCCTCCGCCACACTGAGTCCCTGGGGCTGGGGTTTTGTTTGTA
GAAGGCTCTGGGGACTCCTAATTTCTGCTTCCCCAGCCTAAAGCAGGGATCAGTCTTTTCTTGTGGAATAAATCC
TTGGATCGGG

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## FIGURE 4253

MGVVAPPRPMLDRLKRLSNTDGLPRVQLSSPRQLFSALESDSEQLCTWVGELFLELHNGTYTTHAQIKKGNRECE
RILHDVELLSSLALARSAQFLYPAAQLQHLWRLLLLNQFHDVVTGSCIQMVAEEAMCHYEDIRSHGNTLLSAAAA
ALCAGEPGPEGLLIVNTLPWKRIEVMALPKPGGAHSLALVTVPSMGYAPVPPPTSLQPLLPQQPVFVVQETDGSV
TLDNGIIRVKLDPTGRLTSLVLVASGREAIAEGAVGNQFVLFDDVPLYWDAWDVMDYHLETRKPVLGQAGTLAVG
TEGGLRGSAWFLLQISPNSRLSQEVVLDVGCPYVRFHTEVHWHEAHKFLKVEFPARVRSSQATYEIQFGHLQRPT
HYNTSWDWARFEVWAHRWMDLSEHGFGLALLNDCKYGASVRGSILSLSLLRAPKAPDATADTGRHEFTYALMPHK
GSFQDAGVIQAAYSLNFPLLALPAPSPAPATSWSAFSVSSPAVVLETVKQAESSPQRRSLVLRLYEAHGSHVDCW
LHLSLPVQEAILCDLLERPDPAGHLTLRDNRLKLTFSPFQVLSLLLVLQPPPH

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# FIGURE 4254

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GTAACTTGGCTCCGGGGGCTCCGCTCGCCTGCCCCCACGCCGCCCGCCACCCAGGACCGCGCCGCCGGCCTCTGC
CGCGAACAAACCCTTCTGACGGCCCTCGCTGTGCAGGCCAGGATGCCTCTCCCCCATCCGCCCCCGCTGCGGAAA
GTTAAGTTTGAAGAGGGGGGAAGAGGGGAACATGGACATGAAGAGGAGGATCCACCTGGAGCTGAGGAACTGGAC
CCCGTCAGCTGTTCGAGAACTTGTCTTGGACAATTGCAAATCAAATGATGGAAAAATTGAGGGCTTAACAGCTGA
ATTTGTGAACTTAGAGTTCCTTAGTTTAATAAATGTAGGCTTGATCTCAGTTTCAAATCTTCCCAAGCTGCCTAA
ATTGAAAAAGCTTGAACTCAGTGAAAATAGAATCTTTGGAGGTCTGGACATGTTAGCTGAAAAGCTTCCAAATCT
CACACGTCTAAACTTAAGTGGAAATAAACTGAAAGATATCAGCACCTTGGAACCTTTGAAAAAGTTAGAATGTCT
GAAAAGCCTGGACCTCTTTAACTGTGAGGTTACTAACATGAATGACTACTGAGAGTGTCTTCAAGCTCCTGCCCC
AGCTTACCTACATGGATGGCTATGACCAAGAGGACCAGGAGGAACCTGACTCAGATGCTGAGGTGGATGGTGTGG
ATGAAGAGTAGGAGGGCGAAGAAGAAGACGAAGAAGACGAGGAGGATGAAGATGGTGAAGAAGAGGAGTTTGATG
AAGAAGATGATTAAGACCCCAGATGACCTGCAGAAACAGAACTGTTTAGTATCGGTTGGACTGCTCATGGATTTG
GTAGCTGTTAAAAAAAAAAAAAAAAAAGGTAGCTGATACAAACCCCAGGACACCCACCCACCCAAAGAGCCAAAGA
ATAGTTCCTGTGACATTCCGTCTTCCTCCATGTAGTCCCTCTTGGTAATCTACCAATCTACCATCGAGCTTAGGG
ACTTCACCCCAACAAAATTGTAAGTGTTGTTAGGTTTTTGTGTGAGACTCTTGCTGTAGCGTAGATAGCTGTGAT
TGGTGAGTCAACCATCTGTGGCTACCAGTTACACTGGGACTGTAACAGCATTTTTACTTTCTGTACAACAAAAAT
CTTTGTAAATAAAATCTTAACATT
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## FIGURE 4255

MDMKRRIHLELRNWTPSAVRELVLDNCKSNDGKIEGLTAEFVNLEFLSLINVGLISVSNLPKLPKLKKLELSENR
IFGGLDMLAEKLPNLTRLNLSGNKLKDISTLEPLKKLECLKSLDLFNCEVTNMNDY

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# FIGURE 4256

GAGCGGCGCCCGCTCGAGAGAAGTGGGGCCGAGATCGCGCCGTCCCAGCCCGCCCGCCGGCGTCTGCGCTGCTCC
GGCGCCCTTACCCCTGCTGGCCCTTGCAAGGCGCGACCGGCGGCCATGCAGCCCCGGGGCTGAGGCCGCCCCATG
GCAAAGCCGGCGGTCCCGGCGACGACGGCGCATGGAGAACTTCCGTAAGGTGCGCTCCGAAGAGGCGCCAGCGGG
GTGCGGGGCCGAGGGAGGCGGCCCGGGCTCCGGCCCCTTCGCAGACCTGGCGCCGGGCGCGGTGCACATGCGGGT
CAAGGAAGGCAGCAAGATCCGGAACCTGATGGCCTTCGCCACCGCCAGCATGGCGCAGCCAGCCACGCGCGCCAT
CGTCTTCAGCGGCTGCGGCCGGGCCACCACCAAAACCGTCACGTGCGCCGAGATCCTCAAGCGCCGCCTGGCGGG
CCTGCACCAGGTCACGCGGCTGCGCTACCGGAGCGTACGCGAGGTGTGGCAGAGCCTCCCGCCTGGGCCCACGCA
GGGTCAGACGCCTGGCGAGCCGGCCGCTAGTCTCAGCGTACTTAAGAACGTGCCCGGCCTCGCCATCCTACTTTC
CAAGGACGCGCTGGATCCGCGACAGCCCGGCTACCAGCCCCCGAATCCCCATCCTGGTCCCTCGTCCCCGCCAGC
CGCGCCAGCGTCCAAGAGGAGCCTAGGGGAACCCGCAGCTGGAGAAGGCTCCGCGAAGCGATCGCAACCCGAGCC
AGGGGTTGCGGACGAGGATCAGACGGCCTGAAACTCCGGACTGTGGGCCACCTAGTCCGGCAGGATCTTCCGCCA
GCGCCTCCACCTTCAGATGTACCTCCAGCCTTTCACTCCTCGGTCCTCCGGAGCCCACAACCTGGACACAGCTCC
TCAAGACAGGTAGCATGGACCTTAAGGCGACAAGAGAGGGGCCCCAGGAGTGGCAGGAGAGGATCCCCGACCACC
CTAGGGAAACTTCGTGCGATAATTGCTGCTTATGCCCGTGTTGCGTGAAGACACGGAACTTCACCTTTTCTGGGA
CCTTCTTTGGGGGAGAATGGTGGACAGTGGGATTCTGGAAACTTGTTTGGGACCCCCAAGGGTTAAAGCCACCCA
GCATTCACGAAGAGCACCTGAAGTATGGAAGCTGAGAAGAGTTATTGGAATCACCCCCACCGTTGACAGAGGAAG
GCAGGGGGTGAGAATTAACTGCTTGAGGGTAGGAGAGTCTGAGATGTGGGGGCCCTATTCCGCTCCCCGCCCTGG
GACAGTTTTCCTTTCTAGTTTTCTTTCCCCTGCTTCAGAGGAGCATCTCTGAGGGTTCTAGCTCTTTTAACACCC
CTTTTCCCCTGCTGGCCCAGAGGGAGACCCAGGACTGAACTCTCCAGGCCTCCTCCCCTGAGCCCTGCAGCTGG
CTGGAGTCTTGCTTCCAATAAAACAAGCACA

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# FIGURE 4257A

GGCAGCTAGGAGGGTTGCTCCGGGCTTGGTGCTCACTGCGACTTCCCGCGCAGGGCCCGGTCGGACTAGGACCCG
CGGCCTGAGAGACGCTGGAGGATGCGGACGCGGAGGCCGCCTGGGGTAGCGGCGGCGGGAGTCCTGGCGCTCTGC
AGGTCAGAAGTTGAGTAGCAGGGGCCTAGGAGGGCTCGAAGCCTTCACAGCGATGGCAGAGAAGCGACCCCTGAG
AACCCTGGGGCCTGTGATGTATGGCAAGCTGCCCCGCTTAGAGACAGACTCCGGGCTCGAGCACAGCCTGCCCCA
CTCTGTTGGTAACCAGGATCCCTGCACCTACAAGGGGTCCTACTTCTCCTGCCCCATGGCAGGTACTCCTAAGGC
CGAGTCTGAGCAGTTGGCGTCCTGGACCCCATACCCACCCTTGTACTCTACCGGTATGGCAGGACCCCCACTTCA
GGCAGACAACCTGCTGACCAACTGCCTGTTCTACCGCTCGCCAGCAGAAGGCCCTGAGAAGATGCAGGACTCCAG
CCCTGTTGAGCTCCTGCCCTTCAGTCCCCAGGCTCACTCCTACCCAGGCCCACCACTGGCAGCACCCAAACCTGT
CTACCGCAACCCTCTGTGCTATGGGCTCTCAACTTGTCTGGGGGAAGGAGCAGTGAAGAGGCCACTGGATGTTGA
CTGGACTCTGGCGACTGGGCCCCTGTTGCCCTCAGCTGACCCACCCTGCTCTCTGGCCCCAGCTCCTAGCAAGGG
CCAGACTCTGGATGGCACCTTCTTGCGGGGGGTGCCAGCTGAGGGGTCCAGTAAAGACTCCTCAGGGAGCTTCTC
CCCATGCCAGCCCTTCCTGGAGAAATATCAGACCATCCACAGCACGGGCTTCCTGGCCTCCAGGTACACAGGTCC
TTACCCTAGGAACTCCAAGCAAGCAATGTCTGAGGGGCCCTCAAGTCCTTGGACCCAGCTGGCCCAGCCCCTGGG
GCCACCCTGTCAGGACACCGGGCCCACCCACTACCCACCACCCCACCACCCACCACCCCACCCTTCACAGGCCCT
GCCTTGCCCTCCAGCCTGTCGCCACCCAGAGAAGCAGGGCAGCTACAGCCCAGCACTCCCACTGCAGCCTCTGGG
GGGCCACAAGGGGACCGGGTACCAGGCTGGTGGGCTGGGCAGCCCCTACCTGAGGCAGCAGGCAGCCCAGGCACC
TTACATTCCCCCACTGGGGCTGGACGCTTACCCCTACCCCTCTGCCCCTCTCCCAGCACCCTCTCCAGGCCTCAA
GCTGGAGCCGCCTCTCACTCCACGGTGCCCATTGGACTTTGCCCCCCAGACACTGAGTTTTCCTTATGCCCGGGA
TGACCTCTCTCTCTATGGAGCATCCCCTGGGCTTGGAGGGACACCACCTTCCCAGAACAATGTGCGGGCTGTGCC
ACAGCCTGGTGCCTTCCAGAGGGCATGCCAGCCTTTGCCAGCGAGCCAGCCCTGCTCAGAGCCTGTGAGGCCTGC
ACAGGAAGCCGAAGAGAAGACCTGGCTGCCCAGCTGCAGGAAAGAGAAGCTCCAGCCCCGGCTCAGTGAGCACTC
TGGGCCGCCCATCGTCATCCGAGACAGTCCAGTTCCCTGTACCCCCCCAGCACTGCCCCCCTGTGCCCGGGAGTG
CCAGTCTCTTCCACAGAAGGAGGGCGCAAGGCCACCCAGCTCTCCACCAATGCCTGTCATTGACAATGTCTTCAG
CCTGGCCCCCTACCGTGACTATCTGGATGTGCCGGCACCCGAGGCCACAACTGAGCCTGACTCTGCCACAGCTGA
GCCTGACTCAGCCCCAGCCACCAGTGAAGGTCAGGACAAAGGCTGCAGGGGGACCCTGCCTGCCCAGGAGGGCCC
CTCAGGGAGTAAACCCCTAAGGGGCTCACTTAAGGAGGAGGTAGCCCTGGATTTGAGTGTGAGGAAGCCCACAGC
AGAGGCCTCCCCTGTCAAGGCTTCCCGTTCTGTGGAGCATGCCAAGCCTACTGCAGCCATGGATGTGCCAGATGT
GGGCAACATGGTGTCAGATCTGCCAGGCCTGAAAAAGATAGACACAGAAGCACCAGGCTTGCCTGGGGTGCCAGT
GACCACAGATGCCATGCCAAGGACCAACTTCCACAGCTCTGTGGCCTTCATGTTCCGAAAGTTCAAGATCCTCCG
TCCGGCACCTTTGCCTGCAGCCGTGGTCCCGTCCACGCCCACCTCAGCTCCTGCTCCCACACAGCCTGCACCCAC
CCCCACATCTGGGCCCATTGGACTGCGGGATTCTCGCTCAACAGCCCTTGTCTGTGACCTGCTTCAGCCTGGCACT
GCCCAGCCCTCCAGCCGTAGCTGTGGCCTCCCCTGCCCCTGCTCCAGCTCCATCCCCTGCTCCGGCTCGAGCTCA
GGCTCCAGCTTCAGCCCGGGATCCAGCTCCAGCTCCAGCTCCAGTTGCAGGCCCTGCTCCAGCATCTACTTCAGC
CCCAGGGGACTCCCTGGAGCAGCATTTTACAGGACTACATGCGTCCCTGTGTGATGCTATTTCTGGCTCCGTCGC
CCACTCTCCTCCAGAGAAGCTTCGCGAGTGGCTAGAGACGGCTGGGCCCTGGGGCCAGGCTGCGTGGCAGGACTG
CCAGGGTGTGCAGGGGCTGCTGGCCAAGCTGCTGTCTCAGCTGCAGCGCTTCGATCGCACCCACCGGTGCCCCTT
CCCCCATGTGGTGCGAGCTGGCGCCATCTTCGTGCCCATTCACCTGGTGAAGGAGCGGCTCTTCCCTCGGCTGCC
ACCCGCTTCTGTGGACCATGTGCTGCAGGAGCATCGTGTGGAGCTGCGGCCCACCACGCTGTCGGAGGAGCGGGC
ACTGCGGGAGCTCGCCCTGCCAGGCTGCACCTCACGCATGCTGAAGTTACTGGCGCTGCGCCAGCTGCCGGACAT
TTACCCCGACCTTCTCGGCCTGCAGTGGCGCGACTGTGTACGCCGCCAGCTGGGTGACTTTGACACTGAGGCTGG
AGCTGTGTCCTCCTCAGAGCCCACTGTGGCCAGAGGTGAGCCAGAGAGCCTAGCCCTGGCTCAGAAGTCACCGGC
CCCCAAGGTCAGGAAGCCAGGCAGGAAGCCACCAACCCCTGGCCCGGAGAAAGCAGAGGCAGCTGCTGGGGAAGA
GTCCTGTGGTGCCTCCCCTACCCCTGCTACCAGTGCCAGCCCACCTGGCCCCACACTGAAGGCCCGCTTCCGCAG
TCTGCTGGAGACCGCCTGGCTCAATGGCCTGGCTCTGCCCACCTGGGGCCACAAGTCCTCAAGACCAGACCAGCC
CTCACCCTGCCCACAGCTGCTGGACAGCCAGAGCCATCACCTGTAGCACTGGTTGCCAGTGCTGTGTGTATAGCA
GTCACTCTCCACCCTTCCCTTCTGCCTGCCCAGCTGCCCCGGGGCCACGAGTGGATGCTGGGGCTGTGGCTGCTC
CCCTGGAGGGGTTCCATCTCTGACCCTGTGGCCCATTCAGGGTGGGCTGAAGAGCCCCTGAGCTTTTAACGTGAG
GGTCTTTATTGGATAGGACTACTCCCTATTTCTTGCCTAGAGAACACACATGGGCTTTGGAGCCCGACAGACCTG

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# FIGURE 4257B

GGCTTGAATCCCGGCTCGTGTTCTTGCTGCAGGACCTGGGCAAGAAACTTCACCTCTGCTGAGCCCTCATTCCCC
ATGTGTAAAATGGGACAACGCAACCTACCTCACAGGGTTGTTGTGGGGATGCTGCCTGATACATACCCTGTCACC

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# FIGURE 4258

MDVPDVGNMVSDLPGLKKIDTEAPGLPGVPVTTDAMPRTNFHSSVAFMFRKFKILRPAPLPAAVVPSTPTSAPAP
TQPAPTPTSGPIGLRILAQQPLSVTCFSLALPSPPAVAVASPAPAPAPSPAPARAQAPASARDPAPAPAPVAGPA
PASTSAPGDSLEQHFTGLHASLCDAISGSVAHSPPEKLREWLETAGPWGQAAWQDCQGVQGLLAKLLSQLQRFDR
THRCPFPHVVRAGAIFVPIHLVKERLFPRLPPASVDHVLQEHRVELRPTTLSEERALRELALPGCTSRMLKLLAL
RQLPDIYPDLLGLQWRDCVRRQLGDFDTEAGAVSSSEPTVARGEPESLALAQKSPAPKVRKPGRKPPTPGPEKAE
AAAGEESCGASPTPATSASPPGPTLKARFRSLLETAWLNGLALPTWGHKSSRPDQPSPCPQLLDSQSHHL

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# FIGURE 4259

GTCCTCCCGCGGGTCCGAGGGCGCTGGAAACCCAGCGGCGGCGAAGCGGAGAGGAGCCCCGCGCGTCTCCGCCCG
CACGGCTCCAGGTCTGGGGTCTGCGCTGGAGCCGCGCGGGGAGAGGCCGTCTCTGCGACCGCCGCGCCCGCTCCC
GACCGTCCGGGTCCGCGGCCAGCCCGGCCACCAGCC**ATG**GGCTCTGGCCCGCTCTCGCTGCCCCTGGCGCTGTCG
CCGCCGCGGCTGCTGCTGCTGCTGCTGCTGTCTCTGCTGCCAGTGGCCAGGGCCTCAGAGGCTGAGCACCGTCTA
TTTGAGCGGCTGTTTGAAGATTACAATGAGATCATCCGGCCTGTAGCCAACGTGTCTGACCCAGTCATCATCCAT
TTCGAGGTGTCCATGTCTCAGCTGGTGAAGGTGGATGAAGTAAACCAGATCATGGAGACCAACCTGTGGCTCAAG
CAAATCTGGAATGACTACAAGCTGAAGTGGAACCCCTCTGACTATGGTGGGGCAGAGTTCATGCGTGTCCCTGCA
CAGAAGATCTGGAAGCCAGACATTGTGCTGTATAACAATGCTGTTGGGGATTTCCAGGTGGACGACAAGACCAAA
GCCTTACTCAAGTACACTGGGGAGGTGACTTGGATACCTCCGGCCATCTTTAAGAGCTCCTGTAAAATCGACGTG
ACCTACTTCCCGTTTGATTACCAAAACTGTACCATGAAGTTCGGTTCCTGGTCCTACGATAAGGCGAAAATCGAT
CTGGTCCTGATCGGCTCTTCCATGAACCTCAAGGACTATTGGGAGAGCGGCGAGTGGGCCATCATCAAAGCCCCA
GGCTACAAACACGACATCAAGTACAACTGCTGCGAGGAGATCTACCCCGACATCACATACTCGCTGTACATCCGG
CGCCTGCCCTTGTTCTACACCATCAACCTCATCATCCCCTGCCTGCTCATCTCCTTCCTCACTGTGCTCGTCTTC
TACCTGCCCTCCGACTGCGGTGAGAAGGTGACCCTGTGCATTTCTGTCCTCCTCTCCCTGACGGTGTTTCTCCTG
GTGATCACTGAGACCATCCCTTCCACCTCGCTGGTCATCCCCCTGATTGGAGAGTACCTCCTGTTCACCATGATT
TTTGTAACCTTGTCCATCGTCATCACCGTCTTCGTGCTCAACGTGCACTACAGAACCCCGACGACACACACAATG
CCCTCATGGGTGAAGACTGTATTCTTGAACCTGCTCCCCAGGGTCATGTTCATGACCAGGCCAACAAGCAACGAG
GGCAACGCTCAGAAGCCGAGGCCCCTCTACGGTGCCGAGCTCTCAAATCTGAATTGCTTCAGCCGCGCAGAGTCC
AAAGGCTGCAAGGAGGGCTACCCCTGCCAGGACGGGATGTGTGGTTACTGCCACCACCGCAGGATAAAAATCTCC
AATTTCAGTGCTAACCTCACGAGAAGCTCTAGTTCTGAATCTGTTGATGCTGTGCTGTCCCTCTCTGCTTTGTCA
CCAGAAATCAAAGAAGCCATCCAAAGTGTCAAGTATATTGCTGAAAATATGAAAGCACAAAATGAAGCCAAAGAG
ATTCAAGATGATTGGAAGTATGTTGCCATGGTGATTGATCGTATTTTTCTGTGGGTTTTCACCCTGGTGTGCATT
CTAGGGACAGCAGGATTGTTTCTGCAACCCCTGATGGCCAGGGAAGATGCA**TAA**GCACTAAGCTGTGTGCCTGCC
TGGGAGACTTCCTTGTGTCAGGGCAGGAGGAGGCTGCTTCCTAGTAAGAACGTACTTTCTGTTATCAAGCTACCA
GCTTTGTTTTGGCATTTCGAGGTTTACTTATTTTCCACTTATCTTGGAATCATGCAAAAAAAAAAAATGTCAAGA
GTATTATTACCGATAAATGAACATTTAACTAGCCTTTTTGGTATGGTAAAGAGATGTCAAAATGTGATTCTATG
TGATTAGTATGCTATGCTATGGAATATACATGTAAAAATGTTTCCTTTTAGTTGTTGAAACAAAACTGGATAGAA
AAATGCTGTTCAGAAATATGAAAAGTCATTCAGTTATCACTACAGATCTCCCAGTAATTTTTCTTATTTAGCCCA
TAATCTCTTTGAAGGTTTATACTAATTCAGCAATCCCCCATCGTTACCCATTTCTTACCATGCATTTCTCGTTCT
TTACTGGGTCTAAAGGGCTATGCCTCCATTTCAGAGAGCTTCAACTACTTCTCTTGCATACTTCTAAATTATACT
ATGAGAAATCATGCCTAGTTATTCATTGTTAATATAACTGTCTTAGTACACCATAAACTGGGTGGATTATAAACA
ACAGAAACTTCTCAGTTTTGGAGGTTGGGAGGTCCAAGGTCAAGGCACCAGCAAATTTGGTGTCTGGTGAGGGTC
CTCTTCCTCAAAGGGTGCCTTCTAGCTGTGTCCTCACATGACTGAAGGGACTAGCTATCTCTGTGGGGTCTATTT
TATAAGGGCACTAACCCCATTCATGAGAGCAGAGCCCCCATGGCCTAATCACCTTTCCAAGGCCCCACCTTCTAT
CTAAGACAATCACGCTGGGAATAGGTTTCAACATATGAATTGGGGGAGGACACATTTGGACCACAGCATGAACCT
TTAGAACAGGGTTTCTCAGCCTTAGCACTACGGACATTTGGGCTGGATAAATATGTGTTGGTACAGAATGGGGG
TATCCTGTGCATTGTAGGATCTTTAGCAGTACCCTAGCCTCAACTCACTAGATGCCAATGACATACCTTGCTTCT
TCACCAGTTATGATAACCAAGAATGTCTCCATTGTTAAATGTCCCCTTAGGAGCAAAATTGCCCCTGGTTGAGAA
ACATTGCTTTAGACAAATTGTTAAGAGTATCATGTACTACACTTCTGAAACTTAACGTGATCATCACCACTGACA
GATGATTCACAGAGAGAGACTGTTTGAATCTTGTCTCACTAGTTTTTCCTGTGCAAAAATAAAATGGACAGAATT
GCAAAAAAAAAAAAAAAAA

# FIGURE 4260

MGSGPLSLPLALSPPRLLLLLLLLSLLPVARASEAEHRLFERLFEDYNEIIRPVANVSDPVIIHFEVSMSQLVKVD
EVNQIMETNLWLKQIWNDYKLKWNPSDYGGAEFMRVPAQKIWKPDIVLYNNAVGDFQVDDKTKALLKYTGEVTWI
PPAIFKSSCKIDVTYFPFDYQNCTMKFGSWSYDKAKIDLVLIGSSMNLKDYWESGEWAIIKAPGYKHDIKYNCCE
EIYPDITYSLYIRRLPLFYTINLIIPCLLISFLTVLVFYLPSDCGEKVTLCISVLLSLTVFLLVITETIPSTSLV
IPLIGEYLLFTMIFVTLSIVITVFVLNVHYRTPTTHTMPSWVKTVFLNLLPRVMFMTRPTSNEGNAQKPRPLYGA
ELSNLNCFSRAESKGCKEGYPCQDGMCGYCHHRRIKISNFSANLTRSSSSESVDAVLSLSALSPEIKEAIQSVKY
IAENMKAQNEAKEIQDDWKYVAMVIDRIFLWVFTLVCILGTAGLFLQPLMAREDA

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# FIGURE 4261

GCGCATGCGCGGGGGCCATATTAGCAGCGGTTATTCGGTGAGCGGTGGTGGTTTATTCTTCCGCGGAGTTAAGGG
CTCCGTGGACATCTCAGGTCTTCAGGGTCTTCCATCTGGAACTATATAAAGTTCAGAAAAC**ATG**TCTCGAAGATA
TGACTCCAGGACCACTATATTTTCTCCAGAAGGTCGCTTATACCAAGTTGAATATGCCATGGAAGCTATTGGACA
TGCAGGCACCTGTTTGGGAATTTTAGCAAATGATGGTGTTTTGCTTGCAGCAGAGAGACGCAACATCCACAAGCT
TCTTGATGAAGTCTTTTTTTCTGAAAAAATTTATAAACTCAATGAGGACATGGCTTGCAGTGTGGCAGGCATAAC
TTCTGATGCTAATGTTCTGACTAATGAACTAAGGCTCATTGCTCAAAGGTATTTATTACAGTATCAGGAGCCAAT
ACCTTGTGAGCAGTTGGTTACAGCGCTGTGTGATATCAAACAAGCTTATACACAATTTGGAGGAAAACGTCCCTT
TGGTGTTTCATTGCTGTACATTGGCTGGGATAAGCACTATGGCTTTCAGCTCTATCAGAGTGACCCTAGTGGAAA
TTACGGGGGATGGAAGGCCACATGCATTGGAAATAATAGCGCTGCAGCTGTGTCAATGTTGAAACAAGACTATAA
AGAAGGAGAAATGACCTTGAAGTCAGCACTTGCTTTAGCTATCAAAGTACTAAATAAGACCATGGATGTTAGTAA
ACTCTCTGCTGAAAAAGTGGAAATTGCAACACTAACAAGAGAGAATGGAAAGACAGTAATCAGAGTTCTCAAACA
AAAAGAAGTGGAGCAGTTGATCAAAAAACACGAGGAAGAAGAAGCCAAAGCTGAGCGTGAGAAGAAAGAAAAAGA
ACAGAAAGAAAAGGATAAA**TAG**AATCAGAGATTTTATTACTCATTTGGGGCACCATTTCAGTGTAAAAGCAGTCC
TACTCTTCCACACTAGGAAGGCTTTACTTTTTTTAACTGGTGCAGTGGGAAAATAGGACATTACATACTGAATTG
GGTCCTTGTCATTTCTGTCCAATTGAATACTTTATTGTAACGATGATGGTTACCCTTCATGGACGTCTTAATCTT
CCACACACATCCCCTTTTTTTGGAATAAAATTTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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## FIGURE 4262

MSRRYDSRTTIFSPEGRLYQVEYAMEAIGHAGTCLGILANDGVLLAAERRNIHKLLDEVFFSEKIYKLNEDMACS
VAGITSDANVLTNELRLIAQRYLLQYQEPIPCEQLVTALCDIKQAYTQFGGKRPFGVSLLYIGWDKHYGFQLYQS
DPSGNYGGWKATCIGNNSAAAVSMLKQDYKEGEMTLKSALALAIKVLNKTMDVSKLSAEKVEIATLTRENGKTVI
RVLKQKEVEQLIKKHEEEEAKAEREKKEKEQKEKDK

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## FIGURE 4263

ATGGTTAACCCCACTGTGTTTTTTGACATCGCCGTCGATGGCGAGCCCTTGGGCCACGTCTCCTTCGAGCTGCTT
GCAGACAAGTTTCCAAAGACAGCAGAAAACTTTCATGCTCTGAGCACTGGAGAGAAAGGATTTGAATTATCAGAG
TTTATGTGTCAGGGTGGTGACTTCACATGCCATAATGGCACTGGTGGCAAGTCCATCTATGGGGAGAAATTTGAT
GATGAGAACTTCATCCTAAAGCATACAGTGGTGGATGGCAAGCATGTGGTCTTTGGCAAGGTGAAAGAAGGCATG
AATATTGTGGAGGCCACGGAGCGCTTTGAGTCCAGGAATGGCAAGACCAGGAAGAAGATCACCATTGCTGACTGT
GGACAACTCTAA

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## FIGURE 4264

MVNPTVFFDIAVDGEPLGHVSFELLADKFPKTAENFHALSTGEKGFELSEFMCQGGDFTCHNGTGGKSIYGEKFD
DENFILKHTVVDGKHVVFGKVKEGMNIVEATERFESRNGKTRKKITIADCGQL

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# FIGURE 4265

AGTGCGCGCCGGCCGGGCAACCCTATGCTGGCGTAATCGGGTTCCTCCGAGCCGCCGTAGGACTGGTTCCGGCGG
GCTGGTGAGGA**ATG**GAGCCGGTAGGCTGCTGCGGCGAGTGCCGCGGCTCCTCCGTAGACCCGCGGAGCACCTTCG
TGTTGAGTAACCTGGCGGAGGTGGTGGAGCGTGTGCTCACCTTCCTGCCCGCCAAGGCGTTGCTGCGGGTGGCCT
GCGTGTGCCGCTTATGGAGGGAGTGTGTGCGCAGAGTATTGCGGACCCATCGGAGCGTAACCTGGATCTCCGCAG
GCCTGGCGGAGGCCGGCCACCTGGAGGGGCATTGCTTGGTTCGCGTGGTAGCAGAGGAGCTTGAGAATGTTCGCA
TCTTACCACATACAGTTCTTTACATGGCTGATTCAGAAACTTTCATTAGTCTGGAAGAGTGTCGTGGCCATAAGA
GAGCAAGGAAAAGAACTAGTATGGAAACAGCACTTGCCCTTGAGAAGCTATTCCCCAAACAATGCCAAGTCCTTG
GGATTGTGACCCCAGGAATTGTAGTGACTCCAATGGGATCAGGTAGCAATCGACCTCAGGAAATAGAAATTGGAG
AATCTGGTTTTGCTTTATTATTCCCTCAAATTGAAGGAATAAAAATACAACCCTTTCATTTTATTAAGGATCCAA
AGAATTTAACATTAGAAAGACATCAACTCACTGAAGTAGGTCTTTTAGATAACCCTGAACTTCGTGTGGTCCTTG
TCTTTGGTTATAATTGCTGTAAGGTGGGAGCCAGTAATTATCTGCAGCAAGTAGTCAGCACTTTCAGTGATATGA
ATATCATCTTGGCTGGAGGCCAGGTGGACAACCTGTCATCACTGACTTCTGAAAAGTATGTCTTGTGTGCTTCTG
ATTTCGTCTGTGAA**TGA**AGGGAAATGGTCTCAGGTTTTGTCACTTTGGGGTTAACAATTTAAAAAAACGTGTTTAA
AGAATTATTAAGATAATAGTTCATTCCATTTTGTAGTAGACATTGGCTAAGGGGCTTACTGAACATAATTCTGCT
TACGGTTGAATAATTACATTTTTATATATATTGTCCTTCAAGAACTTCCTTGAGTCACATTCTCCTTAAAATTTG
ACATTGCCTGTTGATCTTTCCTTTGACAGATGTGGTACTCTGTGTGACCTCAATGTGTCACCTCCTTTCTAGTTT
CCTCCTTTAAAGGAAACACATGGTTAGAGTGTATCTTTATGGCAAAACTTCTCAGAGCTTCTAATATGCCCGGTG
CTGTGGAAATCTGGAAGGAGAATAGCATTACCTGTGACAGTTCCCAAATCTGTTTGGTCACAAAACTTTTTTCCA
CAGAATGTCTTGCAAGTCGTACTGGTTTTTGGAAATTCTGTATTAGATCTTTTGAAAGGCTTTTTCAAGCTTAAA
AATTGTGGATCTTTTTTGTTACTAAGGCTTTTGCTTTCAAAGATAAAAATATTTGCTCTTC

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# FIGURE 4266

MEPVGCCGECRGSSVDPRSTFVLSNLAEVVERVLTFLPAKALLRVACVCRLWRECVRRVLRTHRSVTWISAGLAE
AGHLEGHCLVRVVAEELENVRILPHTVLYMADSETFISLEECRGHKRARKRTSMETALALEKLFPKQCQVLGIVT
PGIVVTPMGSGSNRPQEIEIGESGFALLFPQIEGIKIQPFHFIKDPKNLTLERHQLTEVGLLDNPELRVVLVFGY
NCCKVGASNYLQQVVSTFSDMNIILAGGQVDNLSSLTSEKYVLCASDFVCE

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# FIGURE 4267

<u>ATG</u>TTCCGAGCGGCGGCTCCGGGGCAGCTCCGGCGGGCGGCCTCATTGCTACGATTTCAGAGTACCCTGGTAATA
GCTGAGCATGCAAATGATTCCCTAGCACCCATTACTTTAAATACCATTACTGCAGCCACACGCCTTGGAGGTGAA
GTGTCCTGCTTAGTAGCTGGAACCAAATGTGACAAGGTGGCACAAGATCTCTGTAAAGTAGCAGGCATAGCAAAA
GTTCTGGTGGCTCAGCATGATGTGTACAAAGGCCTACTTCCAGAGGAACTGACACCATTGATTTTGGCAACTCAG
AAGCAGTTCAATTACACACACATCTGTGCTGGAGCATCTGCCTTCGGAAAGAACCTTTTGCCCAGAGTAGCAGCC
AAACTTGAGGTTGCCCCGATTTCTGACATCATTGCAATCAAGTCACCTGACACATTTGTGAGAACTATTTATGCA
GGAAATGCTCTATGTACAGTGAAGTGTGATGAGAAAGTGAAAGTGTTTTCTGTCCGTGGAACATCCTTTGATGCT
GCAGCAACAAGTGGCGGTAGTGCCAGTTCAGAAAAGGCATCAAGTACTTCACCAGTGGAAATATCAGAGTGGCTT
GACCAGAAATTAACAAAAAGTGATCGACCAGAGCTAACAGGTGCCAAAGTGGTGGTATCTGGTGGTCGAGGCTTG
AAGAGTGGAGAGAACTTTAAGTTGTTATATGACTTGGCAGATCAACTACATGCTGCAGTTGGTGCTTCCCGTGCT
GCTGTTGATGCTGGCTTTGTTCCCAATGACATGCAAGTTGGACAGACGGGAAAAATAGTAGCACCAGAACTTTAT
ATTGCTGTTGGAATATCTGGAGCCATCCAACATTTAGCTGGGATGAAAGACAGCAAGACAATTGTGGCAATTAAT
AAAGACCCAGAAGCTCCAATTTTCCAAGTGGCAGATTATGGAATAGTTGCAGATTTATTTAAGGTAGTTCCTGAA
ATGACTGAGATATTGAAGAAAAAA<u>TGA</u>ATCAGGATCATGCCTTAAAAAGAAACTTTTGTTAAAGTATTCCACTG
AAATCACAGATATTTGTGGGTATTATAACAATCATTGGAAAGCATGGAGAGCTACATTTCATAATTTGAGGGAAA
ATTTCTAACAGATGCCAGAATGCTTGTTTATGGGATTGCTGTGTTTCCTTTTAATTATTTGTGGTTCCAAACAAT
TATTGTTTGAACTTTTTTAATTCTGTACTAAAATCTATAATAAAGCTTTTCCACAGCTTTAAAACT

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# FIGURE 4268

MFRAAAPGQLRRAASLLRFQSTLVIAEHANDSLAPITLNTITAATRLGGEVSCLVAGTKCDKVAQDLCKVAGIAK
VLVAQHDVYKGLLPEELTPLILATQKQFNYTHICAGASAFGKNLLPRVAAKLEVAPISDIIAIKSPDTFVRTIYA
GNALCTVKCDEKVKVFSVRGTSFDAAATSGGSASSEKASSTSPVEISEWLDQKLTKSDRPELTGAKVVVSGGRGL
KSGENFKLLYDLADQLHAAVGASRAAVDAGFVPNDMQVGQTGKIVAPELYIAVGISGAIQHLAGMKDSKTIVAIN
KDPEAPIFQVADYGIVADLFKVVPEMTEILKKK

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## FIGURE 4269

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GCAGCCGGCCCGGGCCCCCGCCAGCCTCCCTCCTCGCGTCCCTCGGTGTCCTCCGCGGGCCGGCGCGATGCGGCT
GGGCCCGAGGACCGCGGCGTTGGGGCTGCTGCTGCTGTGCGCCGCCGCGGCCGGCGCCGGCAAGGCCGAGGAGCT
GCACTACCCGCTGGGCGAGCGCCGCAGCGACTACGACCGCGAGGCGCTGCTGGGCGTCCAGGAAGATGTGGATGA
ATATGTTAAACTCGGCCACGAAGAGCAGCAAAAAAGACTGCAGGCGATCATAAAGAAAATCGACTTGGACTXCAG
ATGGCTTTCTCACTGAAAGTGAACTCAGTTCATGGATTCAGATGTCTTTTAAGCATTATGCTATGCAAGAAGCAA
AACAACAGTTTGTTGAATATGATAAAAACAGTGATGATACTGTGACTTGGGATGAATATAACATTCAGATGTATG
ATCGTGTGATTGACTTTGATGAGAACACTGCTCTGGATGATGCAGAAGAGGAGTCCTTTAGGAAGCTTCACTTAA
AGGACAAGAAGCGATTTGAAAAAGCTAACCAGGATTCAGGTCCCGGTTTGAGTCTTGAAGAATTTATTGCTTTTG
AGCATCCTGAAGAAGTTGATTATATGACGGAATTTGTCATTCAAGAAGCTTTAGAAGAACATGACAAAAATGGTG
ATGGATTTGTTAGTTTGGAAGAATTTCTTGGTGATTACAGGTGGGATCCAACTGCAAATGAAGATCCAGAATGGA
TACTTGTTGAGAAAGACAGATTCGTGAATGATTATGACAAAGATAACGATGGCAGGCTTGATCCCCAAGAGCTGT
TACCTTGGGTAGTACCTAATAATCAGGGCATTGCACAAGAGGAGGCGCTTCATCTAATTGATGAAATGGATTTGA
ATGGTGACAAAAAGCTCTCTGAAGAAGAGATTCTGGAAAACCCGGACTTGTTTCTCACCAGTGAAGCCACAGATT
ATGGCAGACAGCTCCATGATGACTATTTCTATCATGATGAGCTTTAATCTCTGAGCCTGTCTCAGTAGAGTACTG
GCTCCTTTTATAATTTGTTACCAGCTTTACTTTTGTGATAAAATATTGATGTTGTATTTTACACTCTTAAGTCTT
AACCACAGTCAGAATTATCTTAATGTAGATTATAATTTTGGTCTTTTAGGAAAAAAAAACAAAAATCTGATATTT
ATTTCAAAATGTATTGAAGCAACAAAATATTAATATTGTGCCATATGACAACAAAGTCTTTCCTAAATACTCCAT
CTGTTTAGTACTGTATTGTGGAATATTTGAGTTCTATTTCCATACTTGAAAACATGGAGGATTTTAGAGATGCCT
GAACAATATTATTTAAGTAGTATGTGACCGAGCTATAAATTTTGTTTTTGTTCTAAGTAGATTTAATTTGGGAA
CTGACAGGACAATGTTTTTAGGTTTAGCATTTTGTTTAAAAAACCTTTAAAGAAACCTTTAGAAGGACTTAGACCT
CACATATTAATGTTGAGAAGTTCTGCTTAATTTTAAAATGGTTTCTATAAAGGGTTTTATTGTATGAAATAGAAC
TTTATATTTTTGCATATGTATAGATAGTAATTATATTTAATGTATAACTATAGCATTATGGTGAGTGGAATTTGA
CATTGTCCAAACCTTTTTCATTTTTGAGTGATTAAAAATGAAATGTCCTTTGTA
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# FIGURE 4270

GAGCCCGTCTTCCGACGTGCAGCCTGGCAGTGCAGTGAGCTGTCTGGCCTTTTGTCCTTGATCCTTGGTTAAGGA
A**ATG**ACCAACCAGTACGGTATTCTCTTCAAACAAGAGCAAGCCCATGATGATGCCATTTGGTCAGTTGCTTGGGG
GACGAACAAGAAGGAAAACTCTGAGACAGTGGTCACAGGCTCCCTAGATGACCTGGTGAAGGTCTGGAAATGGCG
TGATGAGAGGCTGGACCTACAGTGGAGTCTGGAGGGACATCAGCTGGGAGTGGTGTCTGTGGACATCAGCCACAC
CCTGCCCATTGCTGCATCCAGCTCTCTTGATGCTCATATTCGTCTTTGGGACTTGGAAAATGGCAAACAGATAAA
GTCCATAGATGCAGGACCTGTGGATGCCTGGACTTTGGCCTTTTCTCCTGATTCCCAGTATCTGGCCACAGGAAC
TCATGTCGGGAAAGTGAACATTTTTGGTGTGGAAAGTGGGAAAAAGGAATATTCTTTGGACACGAGAGGAAAATT
CATTCTTAGTATTGCATATAGTCCTGATGGGAAATACCTAGCCAGTGGAGCCATAGATGGAATCATCAATATTTT
TGATATTGCAACTGGAAAACTTCTGCATACCCTGGAAGGCCATGCCATGCCCATTCGCTCCTTGACCTTTTCCCC
GGACTCCCAGCTCCTTGTCACTGCTTCAGATGATGGCTACATCAAGATCTATGATGTACAACATGCCAATTTGGC
TGGCACGCTGAGCGGCCATGCCTCCTGGGTGCTGAACGTTGCATTCTGTCCTGATGACACTCACTTTGTTTCCAG
TTCGTCTGACAAAAGTGTAAAAGTTTGGGATGTTGGAACGAGGACTTGTGTTCACACCTTCTTTGATCACCAGGA
TCAGGTCTGGGGAGTAAAATACAATGGAAATGGTTCAAAAATTGTGTCTGTTGGAGATGACCAGGAAATTCACAT
CTATGATTGTCCAATT**TAA**ACATCAAAGTCTCCAGGCTTATGCTGCAAAGAGAATGTACGGATTGATCATGACAT
TCCTTACCTTCTTAGGCTTGTTTAAAAGAAATATAGCATTTATTGTAGCAAAGACTTAAATTTTGTAGATACAAT
ATGAATCTTTTCATGTTTTATTGGAAATGCTGTTCATACTTTAACATAAAGCTTTCTTAATGCAAAAAAAAAAAA
AAAAA

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# FIGURE 4271

MTNQYGILFKQEQAHDDAIWSVAWGTNKKENSETVVTGSLDDLVKVWKWRDERLDLQWSLEGHQLGVVSVDISHT
LPIAASSSLDAHIRLWDLENGKQIKSIDAGPVDAWTLAFSPDSQYLATGTHVGKVNIFGVESGKKEYSLDTRGKF
ILSIAYSPDGKYLASGAIDGIINIFDIATGKLLHTLEGHAMPIRSLTFSPDSQLLVTASDDGYIKIYDVQHANLA
GTLSGHASWVLNVAFCPDDTHFVSSSSDKSVKVWDVGTRTCVHTFFDHQDQVWGVKYNGNGSKIVSVGDDQEIHI
YDCPI

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# FIGURE 4272

GTGCAGGGACTTCACAGCCCACACGGGCTACGAGGTGCTGCTGCAGCGGCTTCTGGATGGCAGGAAGATGTGCAA
AGACATGGAGGAGCTACTGAGGCAGAGGGCCCAGGCGGAGGAGCGGTACGGGAAGGAGCTGGTGCAGATCGCACG
GAAGGCAGGTGGCCAGACGGAGATCAACTCCCTGAGGGCCTCCTTTGACTCCTTGAAGCAGCAAATGGAGAATGT
GGGCAGCTCACACATCCAGCTGGCCCTGACCCTGCGTGAGGAGCTGCGGAGTCTCGAGGAGTTTCGTGAGAGGCA
GAAGGAGCAGAGGAAGAAGTATGAGGCCGTCATGGACCGGGTCCAGAAGAGCAAGCTGTCGCTCTACAAGAAGGC
CATGGAGTCCAAGAAGACATACGAGCAGAAGTGCCGGGACGCGGACGACGCGGAGCAGGCCTTCGAGCGCATTAG
CGCCAACGGCCACCAGAAGCAGGTGGAGAAGAGTCAGAACAAAGCCAGGCAGTGCAAGGACTCGGCCACCGAGGC
AGAGCGGGTATACAGGCAGAGCATTGCGCAGCTGGAGAAGGTCCGGGCTGAGTGGGAGCAGGAGCACCGGACCAC
CTGTGAGGCCTTTCAGCTGCAAGAGTTTGACCGGCTGACCATTCTCCGCAACGCCCTGTGGGTGCACAGCAACCA
GCTCTCCATGCAGTGTGTCAAGGATGATGAGCTCTACGAGGAAGTGCGGCTGACGCTGGAAGGCTGCAGCATAGA
CGCCGACATCGACAGTTTCATCCAGGCCAAGAGCACGGGCACAGAGCCCCCCGCTCCGGTGCCCTACCAGAACTA
TTACGATCGGGAGGTCACCCCGCTGACCAGCAGCCCTGGCATACAGCCGTCCTGCGGCATGATAAAGAGGTTCTC
TGGACTGCTGCACGGAAGTCCCAAGACCACTTCGTTGGCAGCTTCTGCTGCGTCCACAGAGACCCTGACCCCCAC
CCCCGAGCGGAATGAGGGTGTCTACACAGCCATCGCAGTGCAGGAGATACAGGGAAACCCGGCCTCACCAGCCCA
GGAGTACCGGGCGCTCTACGATTATACAGCGCAGAACCCAGATGAGCTGGACCTGTCCGCGGGAGACATCCTGGA
GGTGATCCTGGAAGGGGAGGATGGCTGGTGGACTGTGGAGAGGAACGGGCAGCGTGGCTTCGTCCCTGGTTCCTA
CCTGGAGAAGCTTTGAGGAAGGGCCAGGAGCCCCTTCGGACCTGCCCTGCCAGTGGAGCCAGCAGTGCCCCCAGC
ACTGTCCCCACCTTGCTAGGGCCCAGAACCAAGCGTCCCCCAGCCCCGAGAGGGAGCCTGTCGTCTCCCAGGGAA
TAAAGGAGTGCGTTCTGTT

# FIGURE 4273

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GTTGCCAGGGAGCGGCGCGGGAGCCCTGAGGGGACTGCGGCGGCTGCGCGGAGGAGCGAGGCGCTTGCTGGGGTC
GGGGCTGCGCGACGGCGCAGGGGCTGCGGGGAGCGCCGCGCAGGCCGTGCAGTTCCTAGCGAGGAGGCGCCGCCG
CCATTGCCGCTCTCTCGGTGAGCGCAGCCCCGCTCTCCGGGCCGGGCCTTCGCGGGCCACCGGCGCCATGGGCCA
GTGCGGCATCACCTCCTCCAAGACCGTGCTGGTCTTTCTCAACCTCATCTTCTGGGGGGCAGCTGGCATTTTATG
CTATGTGGGAGCCTATGTCTTCATCACTTATGATGACTATGACCACTTCTTTGAAGATGTGTACACGCTCATCCC
TGCTGTAGTGATCATAGCTGTAGGAGCCCTGCTTTTCATCATTGGGCTAATTGGCTGCTGTGCCACAATCCGGGA
AAGTCGCTGTGGACTTGCCACGTTTGTCATCATCCTGCTCTTGGTTTTTGTCACAGAAGTTGTTGTAGTGGTTTT
GGGATATGTTTACAGAGCAAAGGTGGAAAATGAGGTTGATCGCAGCATTCAGAAAGTGTATAAGACCTACAATGG
AACCAACCCTGATGCTGCTAGCCGGGCTATTGATTATGTACAGAGACAGCTGCATTGTTGTGGAATTCACAACTA
CTCAGACTGGGAAAATACAGATTGGTTCAAAGAAACCAAAAACCAGAGTGTCCCTCTTAGCTGCTGCAGAGAGAC
TGCCAGCAATTGTAATGGCAGCCTGGCCCACCCTTCCGACCTCTATGCTGAGGGGTGTGAGGCTCTAGTTGTGAA
GAAGCTACAAGAAATCATGATGCATGTGATCTGGGCCGCACTGGCATTTGCAGCTATTCAGCTGCTGGGCATGCT
GTGTGCTTGCATCGTGTTGTGCAGAAGGAGTAGAGATCCTGCTTACGAGCTCCTCATCACTGGCGGAACCTATGC
ATAGTTGACAACTCAAGCCTGAGCTTTTTGGTCTTGTTCTGATTTGGAAGGTGAATTGAGCAGGTCTGCTGCTGT
TGGCCTCTGGAGTTCATTTAGTTAAAGCACATGTACACTGGTGTTGGACAGAGCAGCTTGGCTTTTCATGTGCCC
ACCTACTTACCTACTACCTGCGACTTTCTTTTTCCTTGTTCTAGCTGACTCTTCATGCCCCTAAGATTTTAAGTA
CGATGGTGAACGTTCTAATTTCAGAACCAATTGCGAGTCATGTAGTGTGGTAGAATTAAAGGAGGACACGAGCCT
GCTTCTGTTACCTCCAAGTGGTAACAGGACTGATGCCGAAATGTCACCAGGTCCTTTCAGTCTTCACAGTGGAGA
ACTCTTGGCCAAAGGTTTTTGGGGGGAGGAGGAGGAAACCAGCTTTCTGGTTAAGGTTAACACCAGATGGTGCCC
CTCATTGGTGTCCTTTTAAAAAATATTTACTGTAGTCCAATAAGATAGCAGCTGTACAAAATGACTAAAATAGAT
TGTAGGATCATATGGCGTATATCTTGGTTCATCTTCAAAATCAGAGACTGAGCTTTGAAACTAGTGGTTTTTAAT
CAAAGTTGGCTTTATAGGAGGAGTATAATGTATGCACTACTGTTTAAAAGAATTAGTGTGAGTGTGTTTTTGTA
TGAATGAGCCCATTCATGGTAAGTCTTAAGCTTGTTGGAAATAATGTACCCATGTAGACTAGCAAAATAGTATGT
AGATGTGATCTCAGTTGTAAATAGAAAAATCTAATTCAATAAACTCTGTATCAGCCCCCAACATATTATTTTTCA
TTATTTGGGGGATATTTCAGTTCCAAAAAAAAAAAAAAAAAA
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## FIGURE 4274

MGQCGITSSKTVLVFLNLIFWGAAGILCYVGAYVFITYDDYDHFFEDVYTLIPAVVIIAVGALLFIIGLIGCCAT
IRESRCGLATFVIILLLVFVTEVVVVVLGYVYRAKVENEVDRSIQKVYKTYNGTNPDAASRAIDYVQRQLHCCGI
HNYSDWENTDWFKETKNQSVPLSCCRETASNCNGSLAHPSDLYAEGCEALVVKKLQEIMMHVIWAALAFAAIQLL
GMLCACIVLCRRSRDPAYELLITGGTYA

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## FIGURE 4275

CTTTCTTTGCTGCGTCTACTGCGAGAATGAAGACTATTCTCAGCAATCAGACTGTCGACATTCCAGAAAATGTCG
ACATTACTCTGAAGGGACGCACAGTTATCGTGAAGGGCCCCAGAGGAACCCTGCGGAGGGACTTCAATCACATCA
ATGTAGAACTCAGCCTTCTTGGAAAGAAAAAAAAGAGGCTCCGGGTTGACAAATGGTGGGGTAACAGAAAGGAAC
TGGCTACCGTTCGGACTATTTGTAGTCATGTACAGAACATGATCAAGGGTGTTACACTGGGCTTCCGTTACAAGA
TGAGGTCTGTGTATGCTCACTTCCCCATCAACGTTGTTATCCAGGAGAATGGGTCTCTTGTTGAAATCCGAAATT
TCTTGGGTGAAAAATACATCCGCAGGGTTCGGATGAGACCAGGTGTTGCTTGTTCAGTATCTCAAGCCCAGAAAG
ATGAATTAATCCTTGAAGGAAATGACATTGAGCTTGTTTCAAATTCAGCGGCTTTGATTCAGCAAGCCACAACAG
TTAAAAACAAGGATATCAGGAAATTTTTGGATGGTATCTATGTCTCTGAAAAAGGAACTGTTCAGCAGGCTGATG
AATAAGATCTAAGAGTTACCTGGCTACAGAAGAAGATGCCAGATGACACTTAAGACCTACTTGTGATATTTAAA
TGATGCAATAAAAGACCTATTGATTTGGA

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# FIGURE 4276

MKTILSNQTVDIPENVDITLKGRTVIVKGPRGTLRRDFNHINVELSLLGKKKKRLRVDKWWGNRKELATVRTICS
HVQNMIKGVTLGFRYKMRSVYAHFPINVVIQENGSLVEIRNFLGEKYIRRVRMRPGVACSVSQAQKDELILEGND
IELVSNSAALIQQATTVKNKDIRKFLDGIYVSEKGTVQQADE

# FIGURE 4277

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CCCTTACATCCTCCTAGGACCCGGTCGGTAGTCGTCGCCCCAGCCCGCCGGGGGCGCAGCGCCCGAGCCGCGGCC
CTCGAGACGGGACCGAGAGCATCATGGGCAGCACTGTCCCGCGCTCCGCCTCCGTGCTGCTTCTGCTGCTGCTCC
TGCGCCGGGCCGAGCAGCCCTGCGGGGCCGAGCTCACCTTCGAGCTGCCGGACAACGCCAAGCAGTGCTTCCACG
AGGAGGTGGAGCAGGGCGTGAAGTTCTCCCTGGATTACCAGGTCATCACTGGAGGCCACTACGATGTTGACTGCT
ATGTAGAGGACCCCCAGGGGAACACCATCTACAGAGAAACGAAGAAGCAGTACGACAGCTTCACGTACCGGGCTG
AAGTCAAGGGCGTTTATCAGTTTTGCTTCAGTAATGAGTTTTCCACCTTCTCTCACAAGACCGTCTACTTTGACT
TTCAAGTGGGCGATGAGCCTCCCATTCTCCCAGACATGGGGAACAGGGTCACAGCTCTCACCCAGATGGAGTCCG
CCTGCGTGACCATCCATGAGGCTCTGAAAACGGTGATTGACTCCCAGACGCATTACCGGCTGCGGGAGGCCCAGG
ACCGGGCCCGAGCGGAAGACCTTAATAGCCGAGTCTCTTACTGGTCTGTTGGCGAGACGATTGCCCTGTTCGTGG
TCAGCTTCAGTCAGGTGCTACTGTTGAAAAGCTTCTTCACAGAAAAACGACCCATCAGCAGGGCAGTCCACTCCT
AGCCCCGGCATCCTGCTCTAGGGCCCCTCATGCCCCAGGCTGGAGCAGCTCTCCTAGGTCACAGCCTGCTGGGCT
GGGTCGCGTAGCCCAGGGTGGAGGCAGAACGATGCTGCTGTGGTAGCCCTTTGCCTTTCATGCCCATGCTTGATT
CTTGCACCTCAGCAGCTGAAGGTCTCAGAGACCAGTAATCAGAAGGCATCCGACTGCATTAAGTGTGCAGCGCTG
AAAAGACATTTACAACTAGGCCAGGGATTAGCCACTGTGGGAGGGTGGACAGGCAATGGTTCAGTGGCCTGGCTG
TTGGCAGGAACTCCAAGTGCCCAGGCCTCTTGGGCAGCTTAGGGCCCTGCCTCTGTTTCATGATGCATGGGTCAT
TTGTCTTGGGTGTCCTATCCCATATGGAGAAGAAAGGGGCTCTAAGTTCTGGCTCTTCTTTCTTTGGGGTTCTCT
GTACCTGAGGAAACCAGGCCCTGGGTGACTTTGCAGATCTGCTCACCCTCGGTGAGCAACAGTGTCAGCCATGCA
AGCAGGACAGAATGGTGACTGGGTGCCCTTGGTGAGCTGTGTATTCCTAGGAGGTAGAAAACTGTGGGAAACTG
TGGCTAATAAAAACTAAGTGTGAGCGTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAA
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# FIGURE 4278

GCGCAAGAGCCAAGCCGCCAGCGCTGCGATGTGGGCCACGCTGCCGCTGCTCTGCGCCGGGGCCTGGCTCCTGGG
AGTCCCCGTCTGCGGTGCCGCCGAACTGTGCGTGAACTCCTTAGAGAAGTTTCACTTCAAGTCATGGATGTCTAA
GCACCGTAAGACCTACAGTACGGAGGAGTACCACCACAGGCTGCAGACGTTTGCCAGCAACTGGAGGAAGATAAA
CGCCCACAACAATGGGAACCACACATTTAAAATGGCACTGAACCAATTTTCAGACATGAGCTTTGCTGAAATAAA
ACACAAGTATCTCTGGTCAGAGCCTCAGAATTGCTCAGCCACCAAAAGTAACTACCTTCGAGGTACTGGTCCCTA
CCCACCTTCCGTGGACTGGCGGAAAAAAGGAAATTTTGTCTCACCTGTGAAAAATCAGGGTGCCTGCGGCAGTTG
CTGGACTTTCTCCACCACTGGGGCCCTGGAGTCTGCGATCGCCATCGCAACCGGAAAGATGCTGTCCTTGGCGGA
ACAGCAGCTGGTGGACTGCGCCCAGGACTTCAATAATCACGGCTGCCAAGGGGGTCTCCCCAGCCAGGCTTTCGA
GTATATCCTGTACAACAAGGGGATCATGGGTGAAGACACCTACCCCTACCAGGGCAAGGATGGTTATTGCAAGTT
CCAACCTGGAAAGGCCATCGGCTTTGTCAAGGATGTAGCCAACATCACAATCTATGACGAGGAAGCGATGGTGGA
GGCTGTGGCCCTCTACAACCCTGTGAGCTTTGCCTTTGAGGTGACTCAGGACTTCATGATGTATAGAACCGGCAT
CTACTCCAGTACTTCCTGCCATAAAACTCCAGATAAAGTAAACCATGCAGTACTGGCTGTTGGGTATGGAGAAAA
AAATGGGATCCCTTACTGGATCGTGAAAAACTCTTGGGGTCCCCAGTGGGGAATGAACGGGTACTTCCTCATCGA
GCGCGGAAAGAACATGTGTGGCCTGGCTGCCTGCGCCTCCTACCCCATCCCTCTGGTGTGAGCCGTGGCAGCCGC
AGCGCAGACTGGCGGAGAAGGAGAGGAACGGGCAGCCTGGGCCTGGGTGGAAATCCTGCCCTGGAGGAAGTTGTG
GGGAGATCCACTGGGACCCCCAACATTCTGCCCTCACCTCTGTGCCCAGCCTGGAAACCTACAGACAAGGAGGAG
TTCCACCATGAGCTCACCCGTGTCTATGACGCAAAGATCACCAGCCATGTGCCTTAGTGTCCTTCTTAACAGACT
CAAACCACATGGACCACGAATATTCTTTCTGTCCAGAAGGGCTACTTTCCACATATAGAGCTCCAGGGACTGTCT
TTTCTGTATTCGCTGTTCAATAAACATTGAGTGAGCACCTCC

# FIGURE 4279

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GGCAAATCCGGCCCAGGATGTAGAGCTGGCAGTGCCTGACGGCGCGTCTGACGCGGAGTTGGGTGGGGTAGAGAG
TAGGGGGCGGTAGTCGGGGGTGGTGGGAGAAGGAGGAGGCGGCGAATCACTTATAAATGGCGCCGAAGCAGGACC
CGAAGCCTAAATTCCAGGAGGGTGAGCGAGTGCTGTGCTTTCATGGGCCTCTTCTTTATGAAGCAAAGTGTGTAA
AGGTTGCCATAAAGGACAAACAAGTGAAATACTTCATACATTACAGTGGTTGGAATAAAAATTGGGATGAATGGG
TTCCGGAGAGCAGAGTACTCAAATACGTGGACACCAATTTGCAGAAACAGCGAGAACTTCAAAAAGCCAATCAGG
AGCAGTATGCAGAGGGGAAGATGAGAGGGGCTGCCCCAGGAAAGAAGACATCTGGTCTGCAACAGAAAAATGTTG
AAGTGAAAACGAAAAAGAACAAACAGAAAACACCTGGAAATGGAGATGGTGGCAGTACCAGTGAGACCCCTCAGC
CTCCTCGGAAGAAAAGGGCCCGGGTAGATCCTACTGTTGAAAATGAGGAAACATTCATGAACAGAGTTGAAGTTA
AAGTAAAGATTCCTGAAGAGCTAAAACCGTGGCTTGTTGATGACTGGGACTTAATTACCAGGCAAAAACAGCTCT
TTTATCTTCCTGCCAAGAAGAATGTGGATTCCATTCTTGAGGATTATGCAAATTACAAGAAATCTCGTGGAAACA
CAGATAATAAGGAGTATGCGGTTAATGAAGTTGTGGCAGGGATAAAAGAATACTTCAACGTAATGTTGGGTACCC
AGCTACTCTATAAATTTGAGAGACCACAGTATGCTGAAATTCTTGCAGATCATCCCGATGCACCCATGTCCCAGG
TGTATGGAGCGCCACATCTCCTGAGATTATTTGTACGAATTGGAGCAATGTTGGCTTATACACCTCTGGATGAGA
AGAGCCTTGCTTTATTACTCAATTATCTTCACGATTTCCTAAAGTACCTGGCAAAGAATTCTGCAACTTTGTTCA
GTGCCAGCGATTATGAAGTGGCTCCTCCTGAGTACCATCGGAAAGCTGTGTGAGAGGCACTCTCACTCACTTATG
TTTGGATCTCCGTAAACACATTTTTGTTCTTAGTCTATCTCTTGTACAAACGATGTGCTTTGAAGATGTTAGTGT
ATAACAATTGATGTTTGTTTTCTGTTTGATTTTAAACAGAGAAAAAATAAAAGGGGGTAATAGCTCCTTTTTTCT
TCTTTCTTTTTTTTTTTCATTTCAAAATTGCTGCCAGTGTTTTCAATGATGGACAACAGAGGGATATGCTGTAGA
GTGTTTTATTGCCTAGTTGACAAAGCTGCTTTTGAATGCTGGTGGTTCTATTCCTTTGACACTACGCACTTTTAT
AATACATGTTAATGCTATATGACAAAATGCTCTGATTCCTAGTGCCAAAGGTTCAATTCAGTGTATATAACTGAA
CACACTCATCCATTTGTGCTTTTGTTTTTTTTATGGTGCTTAAAGTAAAGAGCCCATCCTTTGCAAGTCATCCA
TGTTGTTACTTAGGCATTTTATCTTGGCTCAAATTGTTGAAGAATGGTGGCTTGTTTCATGGTTTTTGTATTTGT
GTCTAATGCACGTTTTAACATGATAGACGCAATGCATTGTGTAGCTAGTTTTCTGGAAAAGTCAATCTTTTAGGA
ATTGTTTTTCAGATCTTCAATAAATTTTTTCTTTAAATTTC
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# FIGURE 4280

MAPKQDPKPKFQEGERVLCFHGPLLYEAKCVKVAIKDKQVKYFIHYSGWNKNWDEWVPESRVLKYVDTNLQKQRE
LQKANQEQYAEGKMRGAAPGKKTSGLQQKNVEVKTKKNKQKTPGNGDGGSTSETPQPPRKKRARVDPTVENEETF
MNRVEVKVKIPEELKPWLVDDWDLITRQKQLFYLPAKKNVDSILEDYANYKKSRGNTDNKEYAVNEVVAGIKEYF
NVMLGTQLLYKFERPQYAEILADHPDAPMSQVYGAPHLLRLFVRIGAMLAYTPLDEKSLALLLNYLHDFLKYLAK
NSATLFSASDYEVAPPEYHRKAV

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# FIGURE 4281

GAACCGCCATCTTCCAGTAATTCGCCAAAATGACGAACACAAAGGGAAAGAGGAGAGGCACCCAATATATGTTCT
CTAGGCCTTTTAGAAAACATGGAGTTGTTGCTTTGGCCACGTATATGCAAATCTATAAGAAAGGTGATATTGTAG
ACATCAAGGGAATGGGTACTGTTCAAAAAGGAATGCCCCACAAGTGTTACCATGGCAAAACTGGAAGAGTCTATA
ATGTCCCCCAGCATGCTGTTGGCATTGTTGTAAACACACAAGTTAAGGGCAAGATTCTTGCCAAGAGAATTAATG
TGCGTATTGAGCACATTAAGCACTCTAAAAGCTGAGATAGTTTCCTGAAACACATGAAGGAAAATGATCAGAAAA
AGAAGGAAGCCAAATAGAAAGGTACCTGGGTTCAACAGAAGCACCAGCCTGCTCCACCCAGAGAAGCACACTTTG
TGAGAACCAATGCGAAGGAGCCTGAGCTGCTGGAACCTATTCCCTATGAATTCATGGCATAACAGGTGTTAATAA
ATAAATAAAAGACCTCTGGGCTGT

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## FIGURE 4282

CTTTCTTTGCTGCGTCTACTGCGAGAATGAAGACTATTCTCAGCAATCAGACTGTCGACATTCCAGAAAATGTCG
ACATTACTCTGAAGGGACGCACAGTTATCGTGAAGGGCCCCAGAGGAACCCTGCGGAGGGACTTCAATCACATCA
ATGTAGAACTCAGCCTTCTTGGAAAGAAAAAAAAGAGGCTCCGGGTTGACAAATGGTGGGGTAACAGAAAGGAAC
TGGCTACCGTTCGGACTATTTGTAGTCATGTACAGAACATGATCAAGGGTGTTACACTGGGCTTCCGTTACAAGA
TGAGGTCTGTGTATGCTCACTTCCCCATCAACGTTGTTATCCAGGAGAATGGGTCTCTTGTTGAAATCCGAAATT
TCTTGGGTGAAAAATACATCCGCAGGGTTCGGATGAGACCAGGTGTTGCTTGTTCAGTATCTCAAGCCCAGAAAG
ATGAATTAATCCTTGAAGGAAATGACATTGAGCTTGTTTCAAATTCAGCGGCTTTGATTCAGCAAGCCACAACAG
TTAAAAACAAGGATATCAGGAAATTTTTGGATGGTATCTATGTCTCTGAAAAAGAAGATGCCAGATGACACT

4644/6881
# FIGURE 4283

CCTCTTTTACCAAGGACCCGCCAAC<u>ATG</u>GGCCGCGTTCGCACCAAAACCGTGAAGAAGGCGGCCCGGGTCATCAT
AGAAAAGTACTACACGCGCCTGGGCAACGACTTCCACACGAACAAGCGCGTGTGCGAGGAGATCGCCATTATCCC
CAGCAAAAAGCTCCGCAACAAGATAGCAGGTTATGTCACGCATCTGATGAAGCGAATTCAGAGAGGCCCAGTAAG
AGGTATCTCCATCAAGCTGCAGGAGGAGGAGAGAGAAAGGAGAGACAATTATGTTCCTGAGGTCTCAGCCTTGGA
TCAGGAGATTATTGAAGTAGATCCTGACACTAAGGAAATGCTGAAGCTTTTGGACTTCGGCAGTCTGTCCAACCT
TCAGGTCACTCAGCCTACAGTTGGGATGAATTTCAAAACGCCTCGGGGACCTGTT<u>TGA</u>ATTTTTTCTGTAGTGCT
GTATTATTTTCAATAAATCTGGGACAACAGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

4645/6881
# FIGURE 4284

MGRVRTKTVKKAARVIIEKYYTRLGNDFHTNKRVCEEIAIIPSKKLRNKIAGYVTHLMKRIQRGPVRGISIKLQE
EERERRDNYVPEVSALDQEIIEVDPDTKEMLKLLDFGSLSNLQVTQPTVGMNFKTPRGPV.

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## FIGURE 4285

CAGTGGCAGCATGGAACCTGCATTTCATAGAGGAGATCTTCTCTTTCTAACAAATCGAGTTGAAGATCCCATACG
AGTGGGAGAAATTGTTGTTTTTAGGATAGAAGGAAGAGAGATTCCTATAGTTCACCGAGTCTTGAAGATTCATGA
AAAGCAAAATGGGCATATCAAGTTTTTGACCAAAGGAGATAATAATGCGGTTGATGACCGAGGCCTCTATAAACA
AGGACAACATTGGCTAGAGAAAAAAGATGTTGTGGGGAGAGCCAGGGGATTTGTTCCTTATATTGGAATTGTGAC
GATCCTCATGAATGACTATCCTAAATTTAAGTATGCAGTTCTCTTTTTGCTGGGTTTATTCGTGCTGGTTCATCG
TGAGTAAGAAGCCTGCCTTGCTGTTCCTGGGAAGATGCCATAGTTTTCGTTACTGGATGTTTGGAGTAGATACTG
GTCTGTGATTGGTGGAATGGAGAACACACGTGTTGGTGCTTCTGGGTAGCACTGGTTTGCATTAGTTTATGTTTC
CATGCCAGAGTTTGTGTGGGCGGGCGCATGTGCACCACAGAGTGCACTCGAGGGGACTTTCAGTCACAGGATTTC
ATAATTGTCATTGTCACACTTTCAAATTTTTGTACATCAGTGAATTTTTTTATATTAAAAGGTTGAGCCAAAGCC
CCCAGTGTTTGTATTTTGAAGCCAAGCTTCACTTCTAAAGTGCCTACAGAGACTTGTAAATGAAAATGCAGCTCT
GCACGAGTTTGAAACCGTCATACCTCCTTCTATTAGGAATGGCATATACTGAGGTGGTCGTAAGTCTTAACTTCT
AAAATTTTAAATAAAAGACTTTGCACATTG

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## FIGURE 4286

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AATCCTTGCGCTTGTAAATCGTACGGGGCTGGGACATGGGAGCTGGGCCTGGAGCTTGCCTGGCGGGCGGATGGG
TGTGGGTGGAGGCACGTTGGGGATCCTGGTGCAGAGTGGGCCAGCTGTGGCCTCGGGGCTCGCCACCGTGGAGGA
CTCCGCCTGGGCCTAGGCCCCCATCTCTAGGAAATGGCTCCTTCCTGCGTGCGCGCGTTGTGAGATTACTAGTAA
GAGCCGCGCTTGTGAAGACGCAGTGCCCAGTTAGTTTGCGCCAGCCTCTGAGTTCAGCTCAGAACACAGATGATC
TCATTGATTCCTCACGTCAACCTTGGGAAATCTGGGTACCCTGGGACGTCCACACATGAGGACCGAGGCTCAGGG
ACATCAAGGGACTGGCCTGGTCCCAGAAACAGGGAGTAAAATGGGAAGTAAACTCAGTCCCACGTCTGCCTGACT
CCAGAGTTTGGGCCACTGAACCATGCGGCTGCCATCTTGGAGTTCTTTGAGCTGTGAAGTGCTGTGCATCGTGTG
ATTCTGTGTCCCTTTTGTGCAGGTACCAGGATTTCTATGCATTCGACCTGTCAGGAGCCACTCGAGTCCTTGAAT
GGATTGATGACAAAGGAGTCTTTGTTGCTGGCTATGAAAGCCTGAAAAAGAATGAAATTCTTCATCTGAAATTAC
CTCTCAGACTTTCTGTAAAGGAAACAAGGGCTTATTCCCAGAAAGAGATTTCAAAGTGCGCCATGGAGGATTTT
CAGACAGGTCTATCTTTGATCTAAAGCATGTGCCACATACCAGATTGCTGGTTACCAGTGGCCTTCCAGGTTGTT
ATCTGCAGGTGTGGCAGGTTGCAGAGGACAGTGGTGAGTGAATTTGACTTGATGGGGTTTGGGGTTCTAGGAAAG
TGTGACTCATACACCCCTGTCCCCTAATCTGAGCCAGTTAAGAAGGAGACTCAGGCTGGGGACAGTCTCATGCCT
GTAATTGTAGCACTTTGGGAGGCTGAGCTGGGTGGATCACTTGAATTCAGGAGTTGAAGACCACCTTGTACAACA
TGGTGAAACCTGTCTCTATTAAAAATACAAAAAATTAGCCGGGCATGGTGGTAGGCACCTGTAATCCCTGCTACT
GGGGAGACTGAGGCAGGAGAATTGCTTGAACCTGGGAGGCGGAGGTTACAGTGAGCCGAGATCATGCCACTGCAC
TCCAGCCTGGGCAACAAGAGCAAAACTCCGTCTCCAAAAAAAAAAGTAGTAGTAGACTCAGAGCCAGGTGGGAAT
TAATCTACTTTAATGC
```

# FIGURE 4287

CCGGAAGAGACACGCGGGGCTTCAGGCTGCTGCCCCATTGGAAGATTACTCCCCAGGCTTCCCTTGCCCCAAGCA
GTGAGCTGACTGGA<u>ATG</u>GTACCCCGGGAGGCCCCTGAGTCTGCTCAGTGCCTGTGCCCTTCCCTCACCATCCCAA
ATGCCAAGGATGTGCTTCGGAAGAGGCACAAGAGAAGGAGCCGACAGCACCAGCGGTTCATGGCCCGGAAGGCCT
TGCTGCAGGAGCAGGGGCTGCTGAGCATGCCTCCAGAACCAGGGTCCTCCCCACTGCCCACCCCTTTCGGGGCAG
CGACAGCAACTGAAGCTGCCAGCAGTGGGAAGCAGTGTCTGAGGGCTGGATCTGGCAGTGCCCCATGCAGCAGAA
GGCCTGCTCCCGGGAAAGCCTCAGGGCCCTTGCCCAGCAAGTGTGTGGCTATCGACTGTGAGATGGTGGGCACGG
GACCCCGAGGGCGGGTAAGCGAGCTGGCCCGCTGTTCCATTGTGAGCTACCATGGCAATGTCCTCTATGACAAGT
ACATCAGGCCTGAGATGCCCATCGCTGACTACCGTACCCGCTGGAGTGGCATCACTCGGCAGCACATGCGCAAGG
CTGTCCCCTTCCAGGTGGCCCAGAAAGAGATCCTTAAGCTCCTGAAGGGCAAGGTGGTGGTGGGGCACGCGCTGC
ACAACGACTTCCAGGCGCTCAAGTATGTCCACCCTCGGAGCCAGACCCGGGATACGACCTATGTCCCAAACTTCC
TCAGCGAGCCCGGCCTCCACACCCGGGCCCGGGTCTCTCTAAAGGACCTGGCCCTGCAGCTGCTGCACAAGAAGA
TCCAGGTGGGCCAGCACGGGCACTCATCAGTAGAAGATGCCACGACAGCCATGGAGCTCTACCGGCTGGTGGAGG
TGCAGTGGGAACAGCAGGAGGCCCGCAGCCTCTGGACCTGCCCCGAGGACAGAGAACCTGACAGCAGCACAGACA
TGGAACAGTACATGGAGGACCATCCACCCAGTACTGGGCTCTTAAGCAAAAGTCTGAGAAACAAGACAGTGGTTT
GAATTCTGGGGCCTTTGTGTAGGATTGTGCCTGACCTTTATTTATTTATTAACAGCAGGGCCACTCGTCTAGGGC
AGTGGAGTCTGCGTGTCTCCTGGGGCTGGGGCAGGGCATTGGCAGTTACGCAGTGGCCCTGAACCTGGTCTGGTG
CCCCCGAACCTGGTCTGATGCCCCCTCAGCTCTTTGACAATCACTGTGGCTGTTGGGTTTTCTCCTATTTCTAAA
AATGTTCTCTTCTTTCCTAAGTGACAGTTTTGAAGTATTGGATAACCAAGAGCTCAGGTCACACAGACCTTGGAG
CCCCATCTTTGCTTGCAGCTTAGCTTTGAGATACTAAGCAAGCGAGGGACTTCACTCTTGAGGCTGTTTTTTCCT
CATCTGTAAAGTGGGGATAGTGGTACGGCCTACCTCATAGGGTTGTAATGAGCACTAAATGTGAAGTGCTTGGCA
CAGTGCCTGGCACATGGTGAGCCACAGCTACTGTGAGTTTCTGTTTATCCCCCTTTTTTTTTTTTAAGCCCATTG
TTTATTCTTTGAGAATTTGTTGTAACTTCTTCAGGATAACACCTGAGTCCACAGGCTGAGCAGCTGTGGCCCAGA
CAGAACTGCTCCGGCTTGGCTGTTCCAGCAGGTGGGGCGCTGGCCTCGGTGAGGGCACAGCAGCAAGGTTCACGG
ATATCCGTGTGTCTTGTCTGTGGCCACCAGGCACAGGTTTGGCTTCCGGTCAGTGTCCCGACACTGTGCGGGAGG
TGACAACAGAGCAAAGCAGCGCAGGGGTCAGGGAGGTACAGACACTGCTGAAATCACACTACCCCACCCTCAGCT
GAAGCCCCACGTTCCACAAACTTGGGGTCATAGATTGTCCAGTCACTGGCTCCCTCCCTGTCAGCACAGCACAGA
GGAAGGGGCTAACTGAATCTTTTACCACTTCTGGCCTGGCTCCAGAACTTTGTTCTAGATTCCTTAAAAGTCGGT
AGCTGATGTCAAACTCAATTGAGCAGTAGCTTTGATCCCTTGGTCTGGGGGTCGAAGGAAGATGGTGCTGTTATC
AGCGGGGAAATGTACTATTTAAGATCAGCTTTGTTGTAAAACCATTTGTTCTAGAATAAAACTCAATTGGAAACG
TG

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# FIGURE 4288

MVPREAPESAQCLCPSLTIPNAKDVLRKRHKRRSRQHQRFMARKALLQEQGLLSMPPEPGSSPLPTPFGAATATE
AASSGKQCLRAGSGSAPCSRRPAPGKASGPLPSKCVAIDCEMVGTGPRGRVSELARCSIVSYHGNVLYDKYIRPE
MPIADYRTRWSGITRQHMRKAVPFQVAQKEILKLLKGKVVVGHALHNDFQALKYVHPRSQTRDTTYVPNFLSEPG
LHTRARVSLKDLALQLLHKKIQVGQHGHSSVEDATTAMELYRLVEVQWEQQEARSLWTCPEDREPDSSTDMEQYM
EDQYWPDDLAHGSRGGAREAQDRRN

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# FIGURE 4289

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CCAAATGCCAAGGATGTGCTTCGGAAGAGGCACAAGAGAAGGAGCCGACAGCACCAGCGGTTCATGGCCCGGAAG
GCCTTGCTGCAGGAGCAGGGGCTGCTGAGCATGCCTCCAGAACCAGGGTCCTCCCCACTGCCCACCCCTTTCGGG
GCAGCGACAGCAACTGAAGCTGCCAGCAGTGGGAAGCAGTGTCTGAGGGCTGGATCTGGCAGTGCCCCATGCAGC
AGAAGGCCTGCTCCCGGGAAAGCCTCAGGGCCCTTGCCCAGCAAGTGTGTGGCTATCGACTGTGAGATGGTGGGC
ACGGGACCCCGAGGGCGGGTAAGCGAGCTGGCCCGCTGTTCCATTGTGAGCTACCATGGCAATGTCCTCTATGAC
AAGTACATCAGGCCTGAGATGCCCATCGCTGACTACCTCTTCCTCCACTCATTTGGGTTCAGAATAAACATGTCC
TGAAGTTAAAGAGGAGTTAAGTCCTAAAGGAGGCATTTCTTCCCCACCTCCCTGACCTGGAACTCTGGCTACAGC
CATTGTAGGAACTCCGTGCCTGGCCTGTCAGCTCCCTGCTAGGCTACAGTGGAATAGCAGAGCCCACAGGCTTCT
CGTGGGGAGTTGGCTCCTTAACATTTCTTGGCAACAGAAAGCCCCAGGCACAGCTCAGGGAGGAGGGAAGGCAGG
TAAGCTTTGGACGAGAACTGGCATATTTATTTTGACCCAAATCAGGGATTTCCCCAGTCCACCCAGTACTGGGCT
CTTAAGCAAAAGTCTGAGAAAC
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**FIGURE 4290**

AGTCCCGGAACTGCTAGAACGAACCATTCGCATATGGAGGGGGTGACCCACCATCTCAGAACATTAAAAAAGGGA
AAGAATCCCCTGGTGAACTACAGTGAAAGTCTTATTGAGCATTTAAATGGAAATAAAAATATTCAGTGGACCTAA
TGAAGAGTAGATGACTTTCCCTTCTGTCCCCTCCCCGACAGGCACTCATGGTACCGGCGCCGGCGCAGCTGTGAC
TGTCGCTGCAGACGGAAACTGACTGGGGTCAATTCAAGTC<u>ATG</u>CAGGCTGTGAGAAACGCGGGGTCGCGGTTCCT
GCGGTCCTGGACTTGGCCCCAGACAGCCGGCAGGGTCGTGGCCAGAACGCCGGCCGGGACCATCTGCACAGGCGC
TCGACAGCTCCAAGACGCTGCGGCCAAGCAGAAAGTTGAACAGAACGCGGCTCCCAGCCACACCAAGTTCAGCAT
TTACCCTCCCATTCCAGGAGAGGAGAGCTCTCTGAGGTGGGCAGGAAAGAAATTTGAGGAGATCCCAATTGCACA
CATTAAAGCATCCCACAACAACACACAGATCCAGGTAGTCTCTGCTAGTAATGAGCCCCTTGCCTTTGCTTCCTG
TGGCACAGAGGGATTTCGGAATGCCAAGAAGGGCACAGGCATCGCAGCACAGACAGCAGGCATAGCCGCAGCGGC
GAGAGCTAAACAAAAGGGCGTGATCCACATCCGAGTTGTGGTGAAAGGCCTGGGGCCAGGACGCTTGTCTGCCAT
GCACGGACTGATCATGGGCGGCCTGGAAGTGATCTCAATCACAGACAACACCCCAATCCCACACAACGGCTGCCG
CCCCAGGAAGGCTCGGAAGCTG<u>**TGA**</u>TGGGAAGGAGGCCTGCACTTGGACCTGACCTCAAGCCTCAGCTCCAGTGG
GACCTTGTAAAATGCTCCCTGTCAGAGCTCTCCAGAATATGCTTGTTGGAGATCCTTCAGGCAGTAAGGGAGAGT
TTTGCCTCCTTACACAGTGGCCTTTGCTTGCACCTCCAGCTGGAGATGGGTGTGCCCCAGAAGTAAGCTTTGCAT
CTCTTACAAGAGGGGAGCTACAGGGGCAGCCGTGGCCTAGGCCCAAACTCTGCTCTGAGAAAATAAATATCTGTA
CCACCTGTCAA

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## FIGURE 4291

MQAVRNAGSRFLRSWTWPQTAGRVVARTPAGTICTGARQLQDAAAKQKVEQNAAPSHTKFSIYPPIPGEESSLRW
AGKKFEEIPIAHIKASHNNTQIQVVSASNEPLAFASCGTEGFRNAKKGTGIAAQTAGIAAAARAKQKGVIHIRVV
VKGLGPGRLSAMHGLIMGGLEVISITDNTPIPHNGCRPRKARKL

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# FIGURE 4292

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TAATTTTTGCCCAGTCTGCCTGTTGTGGGGCTCCTCCCCTTTGGGGATATAAGCCCGGCCTGGGGCTGCTCCGTT
CTCTGCCTGGCCTGAGGCTCCCTGAGCCGCCTCCCCACCATCACCATGGCCAAGGGCTTCTATATTTCCAAGTCC
CTGGGCATCCTGGGGATCCTCCTGGGCGTGGCAGCCGTGTGCACAATCATCGCACTGTCAGTGGTGTACTCCCAG
GAGAAGAACAAGAACGCCAACAGCTCCCCCGTGGCCTCCACCACCCCGTCCGCCTCAGCCACCACCAACCCCGCC
TCGGCCACCACCTTGGACCAAAGTAAAGCGTGGAATCGTTACCGCCTCCCCAACACGCTGAAACCCGATTCCTAC
CGGGTGACGCTGAGACCGTACCTCACCCCCAATGACAGGGGCCTGTACGTTTTTAAGGGCTCCAGCACCGTCCGT
TTCACCTGCAAGGAGGCCACTGACGTCATCATCATCCACAGCAAGAAGCTCAACTACACCCTCAGCCAGGGCACA
GGGTGGTCCTGCGTGGTGTGGGAGGCTCCCAGCCCCCCGACATTGACAAGACTGAGCTGGTGGAGCCCACCGAGT
ACCTGGTGGTGCACCTCAAGGGCTCCCTGGTGAAGGACAGCCAGTATGAGATGGACAGCGAGTTCGAGGGGGAGT
TGGCAGATGACCTGGCGGGCTTCTACCGCAGCGAGTACATGGAGGGCAATGTCAGAAAGGTGGTGGCCACTACAC
AGATGCAGGCTGCAGATGCCCGGAAGTCCTTCCCATGCTTCGATGAGCCGGCCATGAAGGCCGAGTTCAACATCA
CGCTTATCCACCCCAAGGACCTGACAGCCCTGTCCAACATGCTTCCCAAAGGTCCCAGCACCCCACTTCCAGAAG
ACCCCAACTGGAATGTCACTGAGTTCCACACCACGCCCAAGATGTCCACGTACTTGCTGGCCTTCATTGTCAGTG
AGTTCGACTACGTGGAGAAGCAGGCATCCAATGGTGTCTTGATCCGGATCTGGGCCCGGCCCAGTGCCATTGCGG
CGGGCCACGGCGATTATGCCCTGAACGTGACGGGCCCCATCCTTAACTTCTTTGCTGGTCATTATGACACACCCT
ACCCACTCCCAAAATCAGACCAGATTGGCCTGCCAGACTTCAACGCCGGCGCCATGGAGAACTGGGGACTGGTGA
CCTACCGGGAGAACTCCCTGCTGTTCGACCCCCTGTCCTCCTCCAGCAGCAACAAGGAGCGGGTGGTCACTGTGA
TTGCTCATGAGCTGGCCCACCAGTGGTTCGGGAACCTGGTGACCATAGAGTGGTGGAATGACCTGTGGCTGAACG
AGGGCTTCGCCTCCTACGTGGAGTACCTGGGTGCTGACTATGCGGAGCCCACCTGGAACTTGAAAGACCTCATGG
TGCTGAATGATGTGTACCGCGTGATGGCAGTGGATGCACTGGCCTCCTCCCACCCGCTGTCCACACCCGCCTCGG
AGATCAACACGCCGGCCCAGATCAGTGAGCTGTTTGACGCCATCTCCTACAGCAAGGGCGCCTCAGTCCTCAGGA
TGCTCTCCAGCTTCCTGTCCGAGGACGTATTCAAGCAGGGCCTGGCGTCCTACCTCCACACCTTXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXGCTGTGAACAACCGGTCCATCCAACTCCCCACCACCG
TGCGGGACATCATGAACCGCTGGACCCTGCAGATGGGCTTCCCGGTCATCACGGTGGATACCAGCACGGGGACCC
TTTCCCAGGAGCACTTCCTCCTTGACCCCGATTCCAATGTTACCCGCCCCTCAGAATTCAATGGATTGTGCCCAT
CACATCCATCAGAGATGGCAGACAGCAGCAGGACTACTGGCTGATAGATGTAAGAGCCCAGAACGATCTCTTCAG
CACATCAGGCAATGAGTGGGTCCTGCTGAACCTCAATGTGACGGGCTATTACCGGGTGAACTACGACGAAGAGAA
CTGGAGGAAGATTCAGACTCAGCTGCAGAGAGACCACTCGGCCATCCCTGTCATCAATCGGGCACAGATCATTAA
TGACGCCTTCAACCTGGCCAGTGCCCATAAGGTCCCTGTCACTCTGGCGCTGAACAACACCCTCTTCCTGATTGA
AGAGAGACAGTACATGCCCTGGGAGGCCGCCCTGAGCAGCCTGAGCTACTTCAAGCTCATGTTTGACCGCTCCGA
GGTCTATGGCCCCATGAAGAACTACCTGAAGAAGCAGGTCACACCCCTCTTCATTCACTTCAGAAATAATACCAA
CAACTGGAGGGAGATCCCAGAAAACCTGATGGACCAGTACAGCGAGGTTAATGCCATCAGCACCGCCTGCTCCAA
CGGAGTTCCAGAGTGTGAGGAGATGGTCTCTGGCCTTTTCAAGCAGTGGATGGAGAACCCCAATAATAACCCGAT
CCACCCCAACCTGCGGTCCACCGTCTACTGCAACGCTATCGCCCAGGGCGGGGAGGAGGAGTGGGACTTCGCCTG
GGAGCAGTTCCGAAATGCCACACTGGTCAATGAGGCTGACAAGCTCCGGGCAGCCCTGGCCTGCAGCAAAGAGTT
GTGGATCCTGAACAGGTACCTGAGCTACACCCTGAACCCGGACTTAATCCGGAAGCAGGACGCCACCTCTACCAT
CATCAGCATTACCAACAACGTCATTGGGCAAGGTCTGGTCTGGGACTTTGTCCAGAGCAACTGGAAGAAGCTTTT
TAACGATTATGGTGGTGGCTCGTTCTCCTTCTCCAACCTCATCCAGGCAGTGACACGACGATTCTCCACCGAGTA
TGAGCTGCAGCAGCTGGAGCAGTTCAAGAAGGACAACGAGGAAACAGGCTTCGGCTCAGGCACCCGGGCCCTGGA
GCAAGCCCTGGAGAAGACGAAAGCCAACATCAAGTGGGTGAAGGAGAACAAGGAGGTGGTGCTCCAGTGGTTCAC
AGAAAACAGCAAATAGTCCCCAGCCCTTGAAGTCACCCGGCCCCCATGCAAGGTGCCCACATGTGTCCATCCCAG
CGGCTGGTGCAGGGCCTCCATTCCTGGAGCCCGAGGCACCAGTGTCCTCCCCTCAAGGACAAAGTCTCCAGCCCA
CGTTCTCTCTGCCTGTGAGCCAGTCTAGTTCCTGATGACCCAGGCTGCCTGAGCACCTCCCAGCCCCTGCCCTC
ATGCCAACCCCGCCCTAGGCCTGGCATGGCACCTGTCGCCCAGTGCCCTGGGGCTGATCTCAGGGAAGCCCAGCT
CCAGGGCCAGATGAGCAGAAGCTCTCGATGGACAATGAACGGCCTTGCTGGGGGCCGCCCTGTACCCTCTTTCAC
CTTTCCCTAAAGACCCTAAATCTGAGGAATCAACAGGGCAGCAGATCTGTATATTTTTTTCTAAGAGAAAATGTA
AATAAAGGATTTCTAGATG
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## FIGURE 4293

CCAGCGTTAGCCCGCGGCCAGGCAGCCGGGAGGAGCGGCGCGCGCTCGGACCTCTCCCGCCCTGCTCGTTCGCTC
TCCAGCTTGGG**ATG**GCCGGCTACCTGCGGGTCGTGCGCTCGCTCTGCAGAGCCTCAGGCTCGCGGCCGGCCTGGG
CGCCGGCGGCCCTGACAGCCCCCACCTCGCAAGAGCATCCGCGGCGCCACTATGCCGACAAAAGGATCAAGGTGG
CGAAGCCCGTGGTGGAGATGGATGGTGATGAGATGACCCGTATTATCTGGCAGTTCATCAAGGAGAAGCTCATCC
TGCCCCACGTGGACATCCAGCTAAAGTATTTTGACCTCGGGCTCCCAAACCGTGACCAGACTGATGACCAGGTCA
CCATTGACTCTGCACTGGCCACCCAGAAGTACAGTGTGGCTGTCAAGTGTGCCACCATCACCCCTGATGAGGCCC
GTGTGGAAGAGTTCAAGCTGAAGAAGATGTGGAAAAGTCCCAATGGAACTATCCGGAACATCCTGGGGGGGACTG
TCTTCCGGGAGCCCATCATCTGCAAAAACATCCCACGCCTAGTCCCTGGCTGGACCAAGCCCATCACCATTGGCA
GGCACGCCCATGGCGACCAGTACAAGGCCACAGACTTTGTGGCAGACCGGGCCGGCACTTTCAAAATGGTCTTCA
CCCCAAAAGATGGCAGTGGTGTCAAGGAGTGGGAAGTGTACAACTTTCCCGCAGGCGGCGTGGGCATGGGCATGT
ACAACACCGACGAGTCCATCTCAGGTTTTGCGCACAGCTGCTTCCAGTATGCCATCCAGAAGAAATGGCCGCTGT
ACATGAGCACCAAGAACACCATACTGAAAGCCTACGATGGGCGTTTCAAGGACATCTTCCAGGAGATCTTTGACA
AGCACTATAAGACCGACTTCGACAAGAATAAGATCTGGTATGAGCACCGGCTCATTGATGACATGGTGGCTCAGG
TCCTCAAGTCTTCGGGTGGCTTTGTGTGGGCCTGCAAGAACTATGACGGAGATGTGCAGTCAGACATCCTGGCCC
AGGGCTTTGGCTCCCTTGGCCTGATGACGTCCGTCCTGGTCTGCCCTGATGGGAAGACGATTGAGGCTGAGGCCG
CTCATGGGACCGTCACCCGCCACTATCGGGAGCACCAGAAGGGCCGGCCCACCAGCACCAACCCCATCGCCAGCA
TCTTTGCCTGGACACGTGGCCTGGAGCACCGGGGGAAGCTGGATGGGAACCAAGACCTCATCAGGTTTGCCCAGA
TGCTGGAGAAGGTGTGCGTGGAGACGGTGGAGAGTGGAGCCATGACCAAGGACCTGGCGGGCTGCATTCACGGCC
TCAGCAATGTGAAGCTGAACGAGCACTTCCTGAACACCATGGACTTCCTCGACACCATCAAGAGCAACCTGGACA
GAGCCCTGGGCAGGCAG**TAG**GGGGAGGCGCCACCCATGGCTGCAGTGGAGGGGCCAGGGCTGAGCCGGCGGGTCC
TCCTGAGCGCGGCAGAGGGTGAGCCTCACAGCCCCTCTCTGGAGGCCTTTCTAGGGGATGTTTTTTATAAGCCA
GATGTTTTTAAAAGCATATGTGTGTTTCCCCTCATGGTGACGTGAGGCAGGAGCAGTGCGTTTTACCTCAGCCAG
TCAGTATGTTTTGCATACTGTAATTTATATTGCCCTTGGAACACATGGTGCCATATTTAGCTACTAAAAAGCTCT
TCACAAAAAAAAAAACGGATTCCGCG

# FIGURE 4294

MAGYLRVVRSLCRASGSRPAWAPAALTAPTSQEHPRRHYADKRIKVAKPVVEMDGDEMTRIIWQFIKEKLILPHV
DIQLKYFDLGLPNRDQTDDQVTIDSALATQKYSVAVKCATITPDEARVEEFKLKKMWKSPNGTIRNILGGTVFRE
PIICKNIPRLVPGWTKPITIGRHAHGDQYKATDFVADRAGTFKMVFTPKDGSGVKEWEVYNFPAGGVGMGMYNTD
ESISGFAHSCFQYAIQKKWPLYMSTKNTILKAYDGRFKDIFQEIFDKHYKTDFDKNKIWYEHRLIDDMVAQVLKS
SGGFVWACKNYDGDVQSDILAQGFGSLGLMTSVLVCPDGKTIEAEAAHGTVTRHYREHQKGRPTSTNPIASIFAW
TRGLEHRGKLDGNQDLIRFAQMLEKVCVETVESGAMTKDLAGCIHGLSNVKLNEHFLNTMDFLDTIKSNLDRALG
RQ

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## FIGURE 4295

AGAACCCCGCGGGGTCTGAGCAGCCCAGCGTGCCCATTCCAGCGCCCGCGTCCCCGCAGCATGCCGCGCCCCCGC
CTGCTGGCCGCGCTGTGCGGCGCGCTGCTCTGCGCCCCCAGCCTCCTCGTCGCCCTGGATATCTGTTCCAAAAAC
CCCTGCCACAACGGTGGTTTATGCGAGGAGATTTCCCAAGAAGTGCGAGGAGATGTCTTCCCCTCGTACACCTGC
ACGTGCCTTAAGGGCTACGCGGGCAACCACTGTGAGACGAAATGTGTCGAGCCACTGGGCCTGGAGAATGGGAAC
ATTGCCAACTCACAGATCGCCGCCTCGTCTGTGCGTGTGACCTTCTTGGGTTTGCAGCATTGGGTCCCGGAGCTG
GCCCGCCTGAACCGCGCAGGCATGGTCAATGCCTGGACACCCAGCAGCAATGACGATAACCCCTGGATCCAGGTG
AACCTGCTGCGGAGGATGTGGGTAACAGGTGTGGTGACGCAGGGTGCCAGCCGCTTGGCCAGTCATGAGTACCTG
AAGGCCTTCAAGGTGGCCTACAGCCTTAATGGACACGAATTCGATTTCATCCATGATGTTAATAAAAAACACAAG
GAGTTTGTGGGTAACTGGAACAAAAACGCGGTGCATGTCAACCTGTTTGAGACCCCTGTGGAGGCTCAGTACGTG
AGATTGTACCCCACGAGCTGCCACACGGCCTGCACTCTGCGCTTTGAGCTACTGGGCTGTGAGCTGAACGGATGC
GCCAATCCCCTGGGCCTGAAGAATAACAGCATCCCTGACAAGCAGATCACGGCCTCCAGCAGCTACAAGACCTGG
GGCTTGCATCTCTTCAGCTGGAACCCCTCCTATGCACGGCTGGACAAGCAGGGCAACTTCAACGCCTGGGTTGCG
GGGAGCTACGGTAACGATCAGTGGCTGCAGGTGGACCTGGGCTCCTCGAAGGAGGTGACAGGCATCATCACCCAG
GGGGCCCGTAACTTTGGCTCTGTCCAGTTTGTGGCATCCTACAAGGTTGCCTACAGTAATGACAGTGCGAACTGG
ACTGAGTACCAGGACCCCAGGACTGGCAGCAGTAAGATCTTCCCTGGCAACTGGGACAACCACTCCCACAAGAAG
AACTTGTTTGAGACGCCCATCCTGGCTCGCTATGTGCGCATCCTGCCTGTAGCCTGGCACAACCGCATCGCCCTG
CGCCTGGAGCTGCTGGGCTGTTAGTGGCCACCTGCCACCCCCAGGTCTTCCTGCTTTCCATGGGCCCGCTGCCTC
TTGGCTTCTCAGCCCCTTTAAATCACCATAGGGCTGGGGACTGGGGAAGGGGAGGGTGTTCAGAGGCAGCACCAC
CACACAGTCACCCCTCCCTCCCTCTTTCCCACCCTCCACCTCTCACGGGCCCTGCCCCAGCCCCTAAGCCCCGTC
CCCTAACCCCCAGTCCTCACTGTCCTGTTTTCTTAGGCACTGAGGGATCTGAGTAGGTCTGGGATGGACAGGAAA
GGGCAAAGTAGGGCGTGTGGTTTCCCTGCCCCTGTCCGGACCGCCGATCCCAGGTGCGTGTGTCTCTGTCTCTCC
TAGCCCCTCTCTCACACATCACATTCCCATGGTGGCCTCAAGAAAGGCCCGGAAGCGCCAGGCTGGAGATAACAG
CCTCTTGCCCGTCGGCCCTGCGTCGGCCCTGGGGTACCATGTGGCCACAACTGCTGTGGCCCCCTGTCCCCAAGA
CACTTCCCCTTGTCTCCCTGGTTGCCTCTCTTGCCCCTTGTCCTGAAGCCCAGCGACACAGAAGGGGGTGGGGCG
GGTCTATGGGGAGAAAGGGAGCGAGGTCAGAGGAGGGCATGGGTTGGCAGGGTGGGCGTTTGGGGCCCTCTATGC
TGGCTTTTCACCCCAGAGGACACAGGCAGCTTCCAAAATATATTTATCTTCTTCACGGG

4657/6881
# FIGURE 4296

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GGCCGCGCGTCCCAGAGAGCCAGCCCCGGCCGCCGTCGCGGGGAAGTGCCGCCTGGTGGGGTCACGGCGCCTGAA
GCCCACGTGCGCCGCCGAGCCCGAGGTGGCCTCGAGCGCGGCGGCTGACAGCACAGCCCGCCTGAGCTGCCTCCC
GCGCTCCTCCCCGAGGAAAGGATTTTGATTTCAAAGAAAGGAAGGAAGGAAGGACAACTCCCAGCTTCCCCGTCC
CGCCCTCCCCGCTCCGAGGGCCGCGCCAGGCCATGCCCAAGAAGGCGGCGGCGGCGGCGAACCAGCAGAAGGGAC
TTTCCTGGCAGCCCGGCGACGAGGAGCGCGGACAGTGAGTTTGCTCTGCCCCGGTTCATGGTTCCTGCAAGCCCT
CTAGGAGGCCGAAAGCTGCAGCCCCTCCCCTTGCCCCGAAGAGCCTTCCGCGTTCTCTCGCCCTCGGGCCCACCC
CGCGCCGCCCGGGCTCCCGCCGCCGCAGCCCAGTGCCCTCTGCCCGCGGCGGTGGATGGCATGATGGTGCGGGGA
AGGCACCGCGGCCTTGGCCAGCTGAGTCGCGACGGCCGCCGGGGCGGCGGCAGTGGCCGCGGCAGCGGCGGTGGT
AGCGGGCTCCCCAGCGGCATGCCAGTGCCCCCCGGGCGCGATGGCTAGCGGCAGCGCCGGGAAGCCCACTGGCGA
GGCGGCTTCTCCGGCTCCTGCGAGCGCCATCGGCGGGGCCAGCTCGCAGCCGCGGAAGAGGCTGGTATCCGTCTG
CGACCACTGCAAGGGCAAGATGCAGCTGGTGGCTGACCTGCTGCTGCTGTCGAGCGAGGCGCGGCCCGTGCTCTT
CGAGGGCCCCGCCTCCTCTGGTGCCGGCGCCGAGTCCTTCGAGCAGTGCCGGGACACCATCATCGCGCGCACCAA
GGGGCTCTCCATCCTCACCCACGACGTGCAGAGCCAGCTCAACATGGGCCGCTTCGGGGAGGCGGGGGACAGCCT
GGTGGAGCTGGGCGACCTGGTGGTGTCGCTGACCGAGTGCTCGGCCCACGCGGCCTATCTGGCCGCTGTGGCCAC
GCCGGGCGCCCAGCCCGCGCAGCCGGGCCTGGTGGACCGCTACCGCGTGACGCGATGCCGCCACGAGGTGGAGCA
GGGTTGCGCCGTGCTGCGCGCCACGCCGCTGGCCGACATGACGCCGCAGCTGCTGCTGGAGGTGTCGCAGGGCCT
GTCGCGCAACCTCAAGTTCCTGACGGACGCGTGCGCCCTGGCCAGTGACAAGTCACGGGACCGCTTTTCGCGGGA
GCAGTTCAAGCTGGGCGTCAAGTGCATGAGCACCAGCGCGTCGGCGCTGCTGGCCTGCGTGCGCGAGGTGAAGGT
GGCGCCCAGTGAGCTGGCGCGCAGCCGCTGTGCGCTCTTCAGCGGGCCCCTGGTGCAGGCAGTGAGCGCCCTGGT
AGGCTTCGCCACCGAGCCGCAGTTCCTGGGTCGCGCGGCAGCTGTGAGCGCCGAGGGCAAGGCGGTGCAGACCGC
CATCCTGGGCGGCGCCATGAGCGTGGTGTCGGCCTGCGTGCTCCTGACCCAGTGCCTCAGGGATCTGGCGCAGCA
CCCCGACGGGGGCGCCAAGATGTCGGACCACAGGGAGAGGCTGAGGAACTCGGCCTGCGCCGTGTCTGAAGGCTG
CACCCTGCTATCTCAGGCTTTAAGGGAGAGGTCTTCGCCCAGGACTTTACCGCCAGTGAATTCCAATTCTGTGAA
TTAGCACCCCACCCCCATACCCCTTCTTCCACCCCCAGACTAAAGGAAGATACTTACTCTCTGCCCCTCTCCATT
TATACCAAAGAAATCATAGGTGAAACCCCCTACCCTCCCCAACGTTAAATGCTCGAGAGGAATCTTCCACAAGGC
AGGGCCATGCACGCAACCTGCACACGCACTTGGAGGGCCCAGGTGTCTCTCCACCAGCCCCCATGCAGTAGGGAC
TGGAAGATATGTCATCTGCTGGTTGTGTTATCACTCCCACCCCCTACCCCAGCCCGTCTTCCGGAATTTCTCAAC
TAAATTTCATTATTGGGCAGGAAGGAGGTCATGGGTTCATTTCATTTTTGTTTTTGTGTTTTTAATTAAAAGAA
AGGTTACCTCAGTTTTCACTCCTTAGACATGGATGTAGCTACCTTTTTTTGTATGTCTTTTTTTTTTTAAGCAAT
CGTGTTGAATTAGGAGTATACTTGGTGAGGAAAGAGTATGAATTTGCCATGTGATTTGCAAATGGGGGGAAGCTA
CTGTGAGCGTGTGTTTTTTTAATTTACACTATAGAGTGATTTTTTTTCCCCCAACGTCAAGTTTTTACCTTGCAT
GTACTGGAGTATTTATTTCATCTATTAAAATGTTATGTTTCTCAGAAAAAAACCTCGTGGCGAATTCTTGGCCTC
GAGGGCCAAAT
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# FIGURE 4297

MASGSAGKPTGEAASPAPASAIGGASSQPRKRLVSVCDHCKGKMQLVADLLLLSSEARPVLFEGPASSGAGAESF
EQCRDTIIARTKGLSILTHDVQSQLNMGRFGEAGDSLVELGDLVVSLTECSAHAAYLAAVATPGAQPAQPGLVDR
YRVTRCRHEVEQGCAVLRATPLADMTPQLLLEVSQGLSRNLKFLTDACALASDKSRDRFSREQFKLGVKCMSTSA
SALLACVREVKVAPSELARSRCALFSGPLVQAVSALVGFATEPQFLGRAAAVSAEGKAVQTAILGGAMSVVSACV
LLTQCLRDLAQHPDGGAKMSDHRERLRNSACAVSEGCTLLSQALRERSSPRTLPPVNSNSVN

4659/6881
**FIGURE 4298A**

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GAGCTAGCGCTCAAGCAGAGCCCAGCGCGGTGCTATCGGACAGAGCCTGGCGAGCGCAAGCGGCGCGGGGAGCCA
GCGGGGCTGAGCGCGGCCAGGGTCTGAACCCAGATTTCCCAGACTAGCTACCACTCCGCTTGCCCACGCCCCGGG
AGCTCGCGGCGCCTGGCGGTCAGCGACCAGACGTCCGGGGCCGCTGCGCTCCTGGCCCGCGAGGCGTGACACTGT
CTCGGCTACAGACCCAGAGGGAGCACACTGCCAGGATGGGAGCTGCTGGGAGGCAGGACTTCCTCTTCAAGGCCA
TGCTGACCATCAGCTGGCTCACTCTGACCTGCTTCCCTGGGGCACATCCACAGTGGCTGCTGGGTGCCCTGACC
AGAGCCCTGAGTTGCAACCCTGGAACCCTGGCCATGACCAAGACCACCATGTGCATATCGGCCAGGGCAAGACAC
TGCTGCTCACCTCTTCTGCCACGGTCTATTCCATCCACATCTCAGAGGGAGGCAAGCTGGTCATTAAAGACCACG
ACGAGCCGATTGTTTTGCGAACCCGGCACATCCTGATTGACAACGGAGGAGAGCTGCATGCTGGGAGTGCCCTCT
GCCCTTTCCAGGGCAATTTCACCATCATTTTGTATGGAAGGGCTGATGAAGGTATTCAGCCGGATCCTTACTATG
GTCTGAAGTACATTGGGGTTGGTAAAGGAGGCGCTCTTGAGTTGCATGGACAGAAAAAGCTCTCCTGGACATTTC
TGAACAAGACCCTTCACCCAGGTGGCATGGCAGAAGGAGGCTATTTTTTTGAAAGGAGCTGGGGCCACCGTGGAG
TTATTGTTCATGTCATCGACCCCAAATCAGGCACAGTCATCCATTCTGACCGGTTTGACACCTATAGATCCAAGA
AAGAGAGTGAACGTCTGGTCCAGTATTTGAACGCGGTGCCCGATGGCAGGATCCTTTCTGTTGCAGTGAATGATG
AAGGTTCTCGAAATCTGGATGACATGGCCAGGAAGGCGATGACCAAATTGGGAAGCAAACACTTCCTGCACCTTG
GATTTAGACACCCTTGGAGTTTTCTAACTGTGAAAGGAAATCCATCATCTTCAGTGGAAGACCATATTGAATATC
ATGGACATCGAGGCTCTGCTGCTGCCCGGGTATTCAAATTGTTCCAGACAGAGCATGGCGAATATTTCAATGTTT
CTTTGTCCAGTGAGTGGGTTCAAGACGTGGAGTGGACGGAGTGGTTCGATCATGATAAAGTATCTCAGACTAAAG
GTGGGGAGAAAATTTCAGACCTCTGGAAAGCTCACCCAGGAAAAATATGCAATCGTCCCATTGATATACAGGCCA
CTACAATGGATGGAGTTAACCTCAGCACCGAGGTTGTCTACAAAAAAGGCCAGGATTATAGGTTTGCTTGCTACG
ACCGGGGCAGAGCCTGCCGGAGCTACCGTGTACGGTTCCTCTGTGGGAAGCCTGTGAGGCCCAAACTCACAGTCA
CCATTGACACCAATGTGAACAGCACCATTCTGAACTTGGAGGATAATGTACAGTCATGGAAACCTGGAGATACCC
TGGTCATTGCCAGTACTGATTACTCCATGTACCAGGCAGAAGAGTTCCAGGTGCTTCCCTGCAGATCCTGCGCCC
CCAACCAGGTCAAAGTGGCAGGGAAACCAATGTACCTGCACATCGGGGAGGAGATAGACGGCGTGGACATGCGGG
CGGAGGTTGGGCTTCTGAGCCGGAACATCATAGTGATGGGGGAGATGGAGGACAAATGCTACCCCTACAGAAACC
ACATCTGCAATTTCTTTGACTTCGATACCTTTGGGGGCCACATCAAGTTTGCTCTGGGATTTAAGGCAGCACACT
TGGAGGGCACGGAGCTGAAGCATATGGGACAGCAGCTGGTGGGTCAGTACCCGATTCACTTCCACCTGGCCGGTG
ATGTAGACGAAAGGGGGAGGTTATGACCCACCCACATACATCAGGGACCTCTCCATCCATCATACATTCTCTCGCT
GCGTCACAGTCCATGGCTCCAATGGCTTGTTGATCAAGGACGTTGTGGGCTATAACTCTTTGGGCCACTGCTTCT
TCACGGAAGATGGGCCGGAGGAACGCAACACTTTTGACCACTGTCTTGGCCTCCTTGTCAAGTCTGGAACCCTCC
TCCCCTCGGACCGTGACAGCAAGATGTGCAAGATGATCACAGAGGACTCCTACCCGGGGTACATCCCCAAGCCCA
GGCAAGACTGCAATGCTGTGTCCACCTTCTGGATGGCCAATCCCAACAACAACCTCATCAACTGTGCCGCTGCAG
GATCTGAGGAAACTGGATTTTGGTTTATTTTTCACCACGTACCAACGGGCCCCTCCGTGGGAATGTACTCCCCAG
GTTATTCAGAGCACATTCCACTGGGAAAATTCTATAACAACCGAGCACATTCCAACTACCGGGCTGGCATGATCA
TAGACAACGGAGTCAAAACCACCGAGGCCTCTGCCAAGGACAAGCGGCCGTTCCTCTCAATCATCTCTGCCAGAT
ACAGCCCTCACCAGGACGCCGACCCGCTGAAGCCCCGGGAGCCGGCCATCATCAGACACTTCATTGCCTACAAGA
ACCAGGACCACGGGGCCTGGCTGCGCGGCGGGGATGTGTGGCTGGACAGCTGCCGGTTTGCTGACAATGGCATTG
GCCTGACCCTGGCCAGTGGTGGAACCTTCCCGTATGACGACGGCTCCAAGCAAGAGATAAAGAACAGCTTGTTTG
TTGGCGAGAGTGGCAACGTGGGGACGGAAATGATGGACAATAGGATCTGGGGCCCTGGCGGCTTGGACCATAGCG
GAAGGACCCTCCCTATAGGCCAGAATTTTCCAATTAGAGGAATTCAGTTATATGATGGCCCCATCAACATCCAAA
ACTGCACTTTCCGAAAGTTTGTGGCCCTGGAGGGCCGGCACACCAGCGCCCTGGCCTTCCGCCTGAATAATGCCT
GGCAGAGCTGCCCCCATAACAACGTGACCGGCATTGCCTTTGAGGACGTTCCGATTACTTCCAGAGTGTTCTTCG
GAGAGCCTGGGCCCTGGTTCAACCAGCTGGACATGGATGGGGATAAGACATCTGTGTTCCATGACGTCGACGGCT
CCGTGTCCGAGTACCCTGGCTCCTACCTCACGAAGAATGACAACTGGCTGGTCCGGCACCCAGACTGCATCAATG
TTCCCGACTGGAGAGGGGCCATTTGCAGTGGGTGCTATGCACAGATGTACATTCAAGCCTACAAGACCAGTAACC
TGCGAATGAAGATCATCAAGAATGACTTCCCCAGCCACCCTCTTTACCTGGAGGGGGCGCTCACCAGGAGCACCC
ATTACCAGCAATACCAACCGGTTGTCACCCTGCAGAAGGGCTACACCATCCACTGGGACCAGACGGCCCCCGCCG
AACTCGCCATCTGGCTCATCAACTTCAACAAGGGCGACTGGATCCGAGTGGGCTCTGCTACCCGCGAGGCACCA
CATTCTCCATCCTCTCGGATGTTCACAATCGCCTGCTGAAGCAAACGTCCAAGACGGGCGTCTTCGTGAGGACCT
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4660/6881
# FIGURE 4298B

TGCAGATGGACAAAGTGGAGCAGAGCTACCCTGGCAGGAGCCACTACTACTGGGACGAGGACTCAGGGCTGTTGT
TCCTGAAGCTGAAAGCTCAGAACGAGAGAGAGAAGTTTGCTTTCTGCTCCATGAAAGGCTGTGAGAGGATAAAGA
TTAAAGCTCTGATTCCAAAGAACGCAGGCGTCAGTGACTGCACAGCCACAGCTTACCCCAAGTTCACCGAGAGGG
CTGTCGTAGACGTGCCGATGCCCAAGAAGCTCTTTGGTTCTCAGCTGAAAACAAAGGACCATTTCTTGGAGGTGA
AGATGGAGAGTTCCAAGCAGCACTTCTTCCACCTCTGGAACGACTTCGCTTACATTGAAGTGGATGGGAAGAAGT
ACCCCAGTTCGGAGGATGGCATCCAGGTGGTGGTGATTGACGGGAACCAAGGGCGCGTGGTGAGCCACACGAGCT
TCAGGAACTCCATTCTGCAAGGCATACCATGGCAGCTTTTCAACTATGTGGCGACCATCCCTGACAATTCCATAG
TGCTTATGGCATCAAAGGGAAGATACGTCTCCAGAGGCCCATGGACCAGAGTGCTGGAAAAGCTTGGGGCAGACA
GGGGTCTCAAGTTGAAAGAGCAAATGGCATTCGTTGGCTTCAAAGGCAGCTTCCGGCCCATCTGGGTGACACTGG
ACACTGAGGATCACAAAGCCAAAATCTTCCAAGTTGTGCCCATCCCTGTGGTGAAGAAGAAGAAGTTG**TGA**GGAC
AGCTGCCGCCCGGTGCCACCTCGTGGTAGACTATGACGGTGACTCTTGGCAGCAGACCAGTGGGGGATGGCTGGG
TCCCCCAGCCCCTGCCAGCAGCTGCCTGGGAAGGCCGTGTTTCAGCCCTGATGGGCCAAGGGAAGGCTATCAGAG
ACCCTGGTGCTGCCACCTGCCCCTACTCAAGTGTCTACCTGGAGCCCCTGGGGCGGTGCTGGCCAATGCTGGAAA
CATTCACTTTCCTGCAGCCTCTTGGGTGCTTCTCTCCTATCTGTGCCTCTTCAGTGGGGGTTTGGGGACCATATC
AGGAGACCTGGGTTGTGCTGACAGCAAAGATCCACTTTGGCAGGAGCCCTGACCCAGCTAGGAGGTAGTCTGGAG
GGCTGGTCATTCACAGATCCCCATGGTCTTCAGCAGACAAGTGAGGGTGGTAAATGTAGGAGAAAGAGCCTTGGC
CTTAAGGAAATCTTTACTCCTGTAAGCAAGAGCCAACCTCACAGGATTAGGAGCTGGGGTAGAACTGGCTATCCT
TGGGGAAGAGGCAAGCCCTGCCTCTGGCCGTGTCCACCTTTCAGGAGACTTTGAGTGGCAGGTTTGGACTTGGAC
TAGATGACTCTCAAAGGCCCTTTTAGTTCTGAGATTCCAGAAATCTGCTGCATTTCACATGGTACCTGGAACCCA
ACAGTTCATGGATATCCACTGATATCCATGATGCTGGGTGCCCCAGCGCACACGGGATGGAGAGGTGAGAACTAA
TGCCTAGCTTGAGGGGTCTGCAGTCCAGTAGGGCAGGCAGTCAGGTCCATGTGCACTGCAATGCCAGGTGGAGAA
ATCACAGAGAGGTAAAATGGAGGCCAGTGCCATTTCAGAGGGGGAGGCTCAGGAAGGCTTCTTGCTTACAGGAATG
AAGGCTGGGGGCATTTGCTGGGGGGGAGATGAGGCAGCCTCTGGAATGGCTCAGGGATTCAGCCCTCCCTGCCGC
TGCCTGCTGAAGCTGGTGACTACGGGGTCGCCCTTTGCTCACGTCTCTCTGGCCCACTCATGATGGAGAAGTGTG
GTCAGAGGGGAGCAATGGGCTTTGCTGCTTATGAGCACAGAGGAATTCAGTCCCCAGGCAGCCCTGCCTCTGACT
CCAAGAGGGTGAAGTCCACAGAAGTGAGCTCCTGCCTTAGGGCCTCATTTGCTCTTCATCCAGGGAACTGAGCAC
AGGGGGCCTCCAGGAGACCCTAGATGTGCTCGTACTCCCTCGGCCTGGGATTTCAGAGCTGGAAATATAGAAAAT
ATCTAGCCCAAAGCCTTCATTTTAACAGATGGGGAAAGTGAGCCCCCAAGATGGGAAAGAACCACACAGCTAAGG
GAGGGCCTGGGGGAGCCCCACCCTAGCCCTTGCTGCCACACCACATTGCCTCAACAACCGGCCCCAGAGTGCCCAG
GCACTCCTGAGGTAGCTTCTGGAAATGGGGACAAGTCCCCTCGAAGGAAAGGAAATGACTAGAGTAGAATGACAG
CTAGCAGATCTCTTCCCTCCTGCTCCCAGCGCACACAAACCCGCCCTCCCCTTGGTGTTGGCGGTCCCTGTGGCC
TTCACTTTGTTCACTACCTGTCAGCCCAGCCTGGGTGCACAGTAGCTGCAACTCCCCATTGGTGCTACCTGGCTC
TCCTGTCTCTGCAGCTCTACAGGTGAGGCCCAGCAGAGGGAGTAGGGCTCGCCATGTTTCTGGTGAGCCAATTTG
GCTGATCTTGGGTGTCTGAACAGCTATTGGGTCCACCCCAGTCCCTTTCAGCTGCTGCTTAATGCCCTGCTCTCT
CCCTGGCCCACCTTATAGAGAGCCCAAAGAGCTCCTGTAAGAGGGAGAACTCTATCTGTGGTTTATAATCTTGCA
CGAGGCACCAGAGTCTCCCTGGGTCTTGTGATGAACTACATTTATCCCCTTTCCTGCCCCAACCACAAACTCTTT
CCTTCAAAGAGGGCCTGCCTGGCTCCCTCCACCCAACTGCACCCATGAGACTCGGTCCAAGAGTCCATTCCCCAG
GTGGGAGCCAACTGTCAGGGAGGTCTTTCCCACCAAACATCTTTCAGCTGCTGGGAGGTGACCATAGGGCTCTGC
TTTTAAAGATATGGCTGCTTCAAAGGCCAGAGTCACAGGAAGGACTTCTTCCAGGGAGATTAGTGGTGATGGAGA
GGAGAGTTAAAATGACCTCATGTCCTTCTTGTCCACGGTTTTGTTGAGTTTTCACTCTTCTAATGCAAGGGTCTC
ACACTGTGAACCACTTAGGATGTGATCACTTTCAGGTGGCCAGGAATGTTGAATGTCTTTGGCTCAGTTCATTTA
AAAAAGATATCTATTTGAAAGTTCTCAGAGTTGTACATATGTTTCACAGTACAGGATCTGTACATAAAAGTTTCT
TTCCTAAACCATTCACCAAGAGCCAATATCTAGGCATTTTCTTGGTAGCACAAATTTTCTTATTGCTTAGAAAAT
TGTCCTCCTTGTTATTTCTGTTTGTAAGACTTAAGTGAGTTAGGTCTTTAAGGAAAGCAACGCTCCTCTGAAATG
CTTGTCTTTTTTCTGTTGCCGAAATAGCTGGTCCTTTTTCGGGAGTTAGATGTATAGAGTGTTTGTATGTAAACA
TTTCTTGTAGGCATCACCATGAACAAAGATATATTTTCTATTTATTTATTATATGTGCACTTCAAGAAGTCACTG
TCAGAGAAATAAAGAATTGTCTTAAATGTC

4661/6881
# FIGURE 4299

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MGAAGRQDFLFKAMLTISWLTLTCFPGATSTVAAGCPDQSPELQPWNPGHDQDHHVHIGQGKTLLLTSSATVYSI
HISEGGKLVIKDHDEPIVLRTRHILIDNGGELHAGSALCPFQGNFTIILYGRADEGIQPDPYYGLKYIGVGKGGA
LELHGQKKLSWTFLNKTLHPGGMAEGGYFFERSWGHRGVIVHVIDPKSGTVIHSDRFDTYRSKKESERLVQYLNA
VPDGRILSVAVNDEGSRNLDDMARKAMTKLGSKHFLHLGFRHPWSFLTVKGNPSSSVEDHIEYHGHRGSAAARVF
KLFQTEHGEYFNVSLSSEWVQDVEWTEWFDHDKVSQTKGGEKISDLWKAHPGKICNRPIDIQATTMDGVNLSTEV
VYKKGQDYRFACYDRGRACRSYRVRFLCGKPVRPKLTVTIDTNVNSTILNLEDNVQSWKPGDTLVIASTDYSMYQ
AEEFQVLPCRSCAPNQVKVAGKPMYLHIGEEIDGVDMRAEVGLLSRNIIVMGEMEDKCYPYRNHICNFFDFDTFG
GHIKFALGFKAAHLEGTELKHMGQQLVGQYPIHFHLAGDVDERGGYDPPTYIRDLSIHHTFSRCVTVHGSNGLLI
KDVVGYNSLGHCFFTEDGPEERNTFDHCLGLLVKSGTLLPSDRDSKMCKMITEDSYPGYIPKPRQDCNAVSTFWM
ANPNNNLINCAAAGSEETGFWFIFHHVPTGPSVGMYSPGYSEHIPLGKFYNNRAHSNYRAGMIIDNGVKTTEASA
KDKRPFLSIISARYSPHQDADPLKPREPAIIRHFIAYKNQDHGAWLRGGDVWLDSCRFADNGIGLTLASGGTFPY
DDGSKQEIKNSLFVGESGNVGTEMMDNRIWGPGGLDHSGRTLPIGQNFPIRGIQLYDGPINIQNCTFRKFVALEG
RHTSALAFRLNNAWQSCPHNNVTGIAFEDVPITSRVFFGEPGPWFNQLDMDGDKTSVFHDVDGSVSEYPGSYLTK
NDNWLVRHPDCINVPDWRGAICSGCYAQMYIQAYKTSNLRMKIIKNDFPSHPLYLEGALTRSTHYQQYQPVVTLQ
KGYTIHWDQTAPAELAIWLINFNKGDWIRVGLCYPRGTTFSILSDVHNRLLKQTSKTGVFVRTLQMDKVEQSYPG
RSHYYWDEDSGLLFLKLKAQNEREKFAFCSMKGCERIKIKALIPKNAGVSDCTATAYPKFTERAVVDVPMPKKLF
GSQLKTKDHFLEVKMESSKQHFFHLWNDFAYIEVDGKKYPSSEDGIQVVVIDGNQGRVVSHTSFRNSILQGIPWQ
LFNYVATIPDNSIVLMASKGRYVSRGPWTRVLEKLGADRGLKLKEQMAFVGFKGSFRPIWVTLDTEDHKAKIFQV
VPIPVVKKKL
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4662/6881
# FIGURE 4300

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AGTCCTGCTCTCCGCACGCCACCTTAGGCCCGCAGCCGTGCCGGGTGCTCTTCAGCATGTCCTTCATCCCGGTGG
CCGAGGATTCCGACTTCCCCATCCACAACCTGCCCTACGGCGTCTTCTCGACCAGAGGCGACCCAAGACCGAGGA
TAGGTGTGGCCATTGGCGACCAGATCCTGGACCTCAGCATCATCAAGCACCTCTTTACTGGTCCTGTCCTCTCCA
AACACCAGGATGTCTTCAATCAGCCTACACTCAACAGCTTCATGGGCCTGGGTCAGGCTGCCTGGAAGGAGGCGA
GAGTGTTCTTGCAGAACTTGCTGTCTGTGAGCCAAGCCAGGCTCAGAGATGACACCGAACTTCGGAAGTGTGCAT
TCATCTCCCAGGCTTCTGCCACGATGCACCTTCCAGCCACCATAGGAGACTACACAGACTTCTATTCCTCTCGGC
AGCATGCTACCAACGTCGGAATCATGTTCAGGGACAAGGAGAATGCGTTGATGCCAAATTGGCTGCACTTACCAG
TGGGCTACCATGGCCGTGCCTCCTCTGTCGTGGTGTCTGGCACCCCAATCCGAAGGCCCATGGGACAGATGAAAC
CTGATGACTCTAAGCCTCCCGTATATGGTGCCTGCAAGCTCTTGGACATGGAGCTGGAAATGGCTTTTTTTGTAG
GCCCTGGAAACAGATTGGGAGAGCCGATCCCCATTTCCAAGGCCCATGAGCACATTTTTGGAATGGTCCTTATGA
ACGACTGGAGTGCACGAGACATTCAGAAGTGGGAGTATGTCCCTCTCGGGCCATTCCTTGGGAAGAGTTTTGGGA
CCACTGTCTCTCCGTGGGTGGTGCCCATGGATGCTCTCATGCCCTTTGCTGTGCCCAACCCGAAGCAGGACCCCA
GGCCCCTGCCGTATCTGTGCCATGACGAGCCCTACACATTTGACATCAACCTCTCTGTTAACCTGAAAGGAGAAG
GAATGAGCCAGGCGGCTACCATATGCAAGTCCAATTTTAAGTACATGTACTGGACGATGCTGCAGCAGCTCACTC
ACCACTCTGTCAACGGCTGCAACCTGCGGCCGGGGGACCTCCTGGCTTCTGGGACCATCAGCGGGCCGGAGCCAG
AAAACTTCGGCTCCATGTTGGAACTGTCGTGGAAGGGAACGAAGCCCATAGACCTGGGGAATGGTCAGACCAGGA
AGTTTCTGCTGGACGGGGATGAAGTCATCATAACAGGGTACTGCCAGGGGGATGGTTACCGCATCGGCTTTGGCC
AGTGTGCTGGAAAAGTGCTGCCTGCTCTCCTGCCATCATGAGATTTTCTCTGCTCTTCTGGAAACAAAGGGCTCA
AGCACCCCTTTCAACCCTGTGACTGGGGTCCTCCCTCGGGCTGTAGGCCTGGTCCGCCATTCAGTGACAAATAAA
GCCATTGTGCTCTGAGGCCTGC
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4663/6881
# FIGURE 4301

MSFIPVAEDSDFPIHNLPYGVFSTRGDPRPRIGVAIGDQILDLSIIKHLFTGPVLSKHQDVFNQPTLNSFMGLGQ
AAWKEARVFLQNLLSVSQARLRDDTELRKCAFISQASATMHLPATIGDYTDFYSSRQHATNVGIMFRDKENALMP
NWLHLPVGYHGRASSVVVSGTPIRRPMGQMKPDDSKPPVYGACKLLDMELEMAFFVGPGNRLGEPIPISKAHEHI
FGMVLMNDWSARDIQKWEYVPLGPFLGKSFGTTVSPWVVPMDALMPFAVPNPKQDPRPLPYLCHDEPYTFDINLS
VNLKGEGMSQAATICKSNFKYMYWTMLQQLTHHSVNGCNLRPGDLLASGTISGPEPENFGSMLELSWKGTKPIDL
GNGQTRKFLLDGDEVIITGYCQGDGYRIGFGQCAGKVLPALLPS

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# FIGURE 4302

TCGACATGGCGGTTACCCTGAGTCTCTTGCTGGGCGGGCGCGTTTGCGCCGCCGTCACTCGCTGTGGGTTCGCGA
CCCGGGGGGTGGCGGGCCCAGGCCCTATTGGCCGGGAGCCGGACCCCGATTCCGACTGGGAGCCGGAGGAACGGG
AGCTGCAGGAGGTGGAGAGGTACCGGCTTCTCCCCGGGCCCTCAGCTTGAAGCAGGGCCTCGTGCCCCGGCGCTC
CAGGCCGCGCCCCCTTGGCGCCGGGTGTCCTGCCGCTGCTTGCGCAGCGGCCCTTGTTTCTTCTTACCCGTTGTT
AGGGGCGCAGCGTCAGGTGTTCAGCTCCCCGGGACCACTGGTCCCTTCATTAGTGACGTATTTCATCATCAGTTT
AGAGAGTTCGGCATGCTTACAGGCAGTTATTGTTCTAGGTGTTAGCTTTCTGGGTGTACGGAGCAGCTCTAAGCC
GGCAACATGGCCCGGTTGCCCTTGCGATCAAAGAGAAGAGGGCTGGGCGCTCCATGATTTAGCCTGAGGCTCTTC
AAACATCCATTCTGCTTCCACGCATGGCTTCTGCCATTGGTTCTCTTCCCCCAGCACCCTGAAACGACAGAAACA
AGCAATCCGATTCCAGAAAATTCGGAGGCAA**ATG**GAGGCGCCTGGTGCCCCGCCCAGGACCCTGACGTGGGAAGC
CATGGAGCAGATACGGTATTTACATGAGGAATTTCCAGAGTCCTGGTCAGTTCCCAGGTTGGCTGAAGGCTTTGA
TGTCAGCACTGATGTGATCCGAAGAGTTTTAAAAAGCAAGTTTTTACCCACATTGGAGCAGAAGCTGAAGCAGGA
TCAAAAAGTCCTTAAGAAAGCTGGGCTTGCCCACTCGCTGCAGCACCTCCGGGGCTCTGGAAATACCTCAAAGCT
GCTCCCTGCAGGCCACTCTGTATCAGGCTCTTTGCTTATGCCAGGGCATGAAGCCTCATCTAAAGACCCAAATCA
CAGCACAGCTTTGAAAGTGATAGAGTCAGACACTCACAGGACAAATACACCAAGGAGAAGGAAGGGAAGAAATAA
AGAAATCCAGGACCTGGAGGAGAGCTTTGTGCCTGTTGCTGCACCCCTAGGTCATCCAAGAGAGCTGCAGAAGTA
CTCCAGTGATTCTGAGAGCCCCAGAGGAACTGGCAGTGGTGCGTTGCCAAGTGGTCAGAAGCTGGAGGAGTTGAA
GGCAGAGGAGCCAGATAACTTCAGCAGCAAAGTAGTGCAGAGGGGCCGAGAGTTCTTTGACAGCAACGGGAACTT
CCTGTACAGAATT**TGA**GTCGGGGCTTGGCTTATGGAGATGCCTCGTGAAACACAGCTGGGCAAGTATTAATGTAT
ATGGAACAGCCTGGATTTCTGCATATGGATAAGCCACCTTGGAATAGGAAGAGGTGTTGAGCCTGGACTGTGGGA
GGAAAGAGCTGCGTGGATAGATTCAAACTTCCTGTGGTAGTGCTCCCAGTCTGACCTCTGTAGACCTTCAGTACT
CACTCTTCTTGCTTAGGCTCTCTGTGTGTTGAAAGCCATCCCGTGTTGCATGTGTTGTTACAATTTTCTGTGATA
CTTGCAATTTATGTTTGAGAAGAAGTGAAAAGTTTGCCTTCTGACCTCATTTCCTTCTTGATCAGTGAACACTAA
CATTTTGGGGACAACTTAGTCAATTGGTTTTCCTTACAACAAAATAAAGTAAAATGTAGCAAAAAAAAAAAAAAA
AAAA

4665/6881
# FIGURE 4303

MEAPGAPPRTLTWEAMEQIRYLHEEFPESWSVPRLAEGFDVSTDVIRRVLKSKFLPTLEQKLKQDQKVLKKAGLA
HSLQHLRGSGNTSKLLPAGHSVSGSLLMPGHEASSKDPNHSTALKVIESDTHRTNTPRRRKGRNKEIQDLEESFV
PVAAPLGHPRELQKYSSDSESPRGTGSGALPSGQKLEELKAEEPDNFSSKVVQRGREFFDSNGNFLYRI

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# FIGURE 4304

CTGAAGGCTTTGATGTCAGCACTGATGTGATCCGAAGAGTTTTACAGGCTCTTTGCTTATGCCAGGGCATGAAGC
CTCATCTAAAGACCCAAATCACAGCACAGCTTTGAAAGTGATAGAGTCAGACACTCACAGGACAAATACACCAAG
GAGAAGGAAGGGAAGAAATAAAGAAATCCAGGACCTGGAGGAGAGCTTTGTGCCTGTTGCTGCACCCCTAGGTCA
TCCAAGAGAGCTGCAGAAGTACTCCAGTGATTCTGAGAGCCCCAGAGGAACTGGCAGTGGTGCGTTGCCAAGTGG
TCAGAAGCTGGAGGAGTTGAAGGCAGAGGAGCCAGATAACTTCAGCAGCAAAGTAGTGCAGAGGGGCCGAGAGTT
CTTTGACAGCAACGGGAACTTCCTGTACAGAATTTGAGTCGGGGCTTGGCTTATGGAGATGCCTCGTGAAACACA
GCTGGGCAAGTATTAATGTATATGGAACAGCCTGGATTTCTGCATATGGATAAGCCACCTTGGAATAGGAAGAGG
TGTTGAGCCTGGACTGTGGGAGGAAAGAGCTGCGTGGATAGATTCAAACTTCCTGTGGTAGTGCTCCCAGTCTGA
CCTCTGTAGACCTTCAGTACTCACTCTTCTTGCTTAGGCTCTCTGTGTGTTGAAAGCCATCCCGTGTTGCATGT

4667/6881
# FIGURE 4305

TCTCCCGAATTCGGCACGAGGCGGCGTCTCGAGGCGAGTTGGCGGAGCTGTGCGCGCGGCGGGGCG**ATG**GGGGGC
TCGGGCAGTCGCCTGTCCAAGGAGCTGCTGGCCGAGTACCAGGACTTGACGTTCCTGACGAAGCAGGAGATCCTC
CTAGCCCACAGGCGGTTTTGTGAGCTGCTTCCCCAGGAGCAGCGGACCGTGGAGTCGTCACTTCGGGCACAAGTG
CCCTTCGAGCAGATTCTCAGCCTTCCAGAGCTCAAGGCCAACCCCTTCAAGGAGCGAATCTGCAGGGTCTTCTCC
ACATCCCCAGCCAAAGACAGCCTTAGCTTTGAGGACTTCCTGGATCTCCTCAGTGTGTTCAGTGACACAGCCACG
CCAGACATCAAGTCCCATTATGCCTTCCGCATCTTTGACTTTGATGATGACGGAACCTTGAACAGAGAAGACCTG
AGCCGGCTGGTGAACTGCCTCACGGGAGAGGGCGAGGACACACGGCTTAGTGCGTCTGAGATGAAGCAGCTCATC
GACAACATCCTGGAGGAGTCTGACATTGACAGGGATGGAACCATCAACCTCTCTGAGTTCCAGCACGTCATCTCC
CGTTCTCCAGACTTTGCCAGCTCCTTTAAGATTGTCCTG**TGA**CAGCAGCCCCAGCGTGTGTCCTGGCACCCTGTC
CAAGAACCTTTCTACTGCTGAGCTGTGGCCAAGGTCAAGCCTGTGTTGCCAGTGCGGGCCAAGCTGGCCCAGCCT
GGAGCTGGCGCTGTGCAGCCTCACCCCGGGCAGGGGCGGCCCTCGTTGTCAGGGCCTCTCCTCACTGCTGTTGTC
ATTGCTCCGTTTGTGTTTGTACTAATCAGTAATAAAGGTTTAGAAGTTTGACCCTAAAAAAAAAAAAAAAAAAAA
AAAAA

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# FIGURE 4306

MGGSGSRLSKELLAEYQDLTFLTKQEILLAHRRFCELLPQEQRTVESSLRAQVPFEQILSLPELKANPFKERICR
VFSTSPAKDSLSFEDFLDLLSVFSDTATPDIKSHYAFRIFDFDDDGTLNREDLSRLVNCLTGEGEDTRLSASEMK
QLIDNILEESDIDRDGTINLSEFQHVISRSPDFASSFKIVL

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# FIGURE 4307A

GCTCTGCCCAAGCCGAGGCTGCGGGGCCGGCGCCGGCGGGAGGACTGCGGTGCCCCGCGGAGGGGCTGAGTTTGC
CAGGGCCCACTTGACCCTGTTTCCCACCTCCCGCCCCCCAGGTCCGGAGGCGGGGGCCCCCGGGGCGACTCGGGG
GCGGACCGCGGGGCGGAGCTGCCGCCCGTGAGTCCGGCCGAGCCACCTGAGCCCGAGCCGCGGGACACCGTCGCT
CCTGCTCTCCGA**ATG**CTGCGCACCGCGATGGGCCTGAGGAGCTGGCTCGCCGCCCCATGGGGCGCGCTGCCGCCT
CGGCCACCGCTGCTGCTGCTCCTGCTGCTGCTGCTCCTGCTGCAGCCGCCGCCTCCGACCTGGGCGCTCAGCCCC
CGGATCAGCCTGCCTCTGGGCTCTGAAGAGCGGCCATTCCTCAGATTCGAAGCTGAACACATCTCCAACTACACA
GCCCTTCTGCTGAGCAGGGATGGCAGGACCCTGTACGTGGGTGCTCGAGAGGCCCTCTTTGCACTCAGTAGCAAC
CTCAGCTTCCTGCCAGGCGGGGAGTACCAGGAGCTGCTTTGGGGTGCAGACGCAGAGAAGAAACAGCAGTGCAGC
TTCAAGGGCAAGGACCCACAGCGCGACTGTCAAAACTACATCAAGATCCTCCTGCCGCTCAGCGGCAGTCACCTG
TTCACCTGTGGCACAGCAGCCTTCAGCCCCATGTGTACCTACATCAACATGGAGAACTTCACCCTGGCAAGGGAC
GAGAAGGGGAATGTCCTCCTGGAAGATGGCAAGGGCCGTTGTCCCTTCGACCCGAATTTCAAGTCCACTGCCCTG
GTGGTTGATGGCGAGCTCTACACTGGAACAGTCAGCAGCTTCCAAGGGAATGACCCGGCCATCTCGCGGAGCCAA
AGCCTTCGCCCCACCAAGACCGAGAGCTCCCTCAACTGGCTGCAAGACCCAGCTTTTGTGGCCTCAGCCTACATT
CCTGAGAGCCTGGGCAGCTTGCAAGGCGATGATGACAAGATCTACTTTTTCTTCAGCGAGACTGGCCAGGAATTT
GAGTTCTTTGAGAACACCATTGTGTCCCGCATTGCCCGCATCTGCAAGGGCGATGAGGGTGGAGAGCGGGTGCTA
CAGCAGCGCTGGACCTCCTTCCTCAAGGCCCAGCTGCTGTGCTCACGGCCCGACGATGGCTTCCCCTTCAACGTG
CTGCAGGATGTCTTCACGCTGAGCCCCAGCCCCCAGGACTGGCGTGACACCCTTTTCTATGGGGTCTTCACTTCC
CAGTGGCACAGGGGAACTACAGAAGGCTCTGCCGTCTGTGTCTTCACAATGAAGGATGTGCAGAGAGTCTTCAGC
GGCCTCTACAAGGAGGTGAACCGTGAGACACAGCAGATGGTACACCGTGACCCACCCGTGCCCACACCCCGGCCT
GGAGCGTGCATCACCAACAGTGCCCGGGAAAGGAAGATCAACTCATCCCTGCAGCTCCCAGACCGCGTGCTGAAC
TTCCTCAAGGACCACTTCCTGATGGACGGGCAGGTCCGAAGCCGCATGCTGCTGCTGCAGCCCCAGGCTCGCTAC
CAGCGCGTGGCTGTACACCGCGTCCCTGGCCTGCACCACACCTACGATGTCCTCTTCCTGGGCACTGGTGACGGC
CGGCTCCACAAGGCAGTGAGCGTGGGCCCCCGGGTGCACATCATTGAGGAGCTGCAGATCTTCTCATCGGGACAG
CCCGTGCAGAATCTGCTCCTGGACACCCACAGGGGGCTGCTGTATGCGGCCTCACACTCGGGCGTAGTCCAGGTG
CCCATGGCCAACTGCAGCCTGTACAGGAGCTGTGGGGACTGCCTCCTCGCCCGGGACCCCTACTGTGCTTGGAGC
GGCTCCAGCTGCAAGCACGTCAGCCTCTACCAGCCTCAGCTGGCCACCAGGCCGTGGATCCAGGACATCGAGGGA
GCCAGCGCCAAGGACCTTTGCAGCGCGTCTTCGGTTGTGTCCCCGTCTTTTGTACCAACAGGGGAGAAGCCATGT
GAGCAAGTCCAGTTCCAGCCCAACACAGTGAACACTTTGGCCTGCCCGCTCCTCTCCAACCTGGCGACCCGACTC
TGGCTACGCAACGGGGCCCCCGTCAATGCCTCGGCCTCCTGCCACGTGCTACCCACTGGGGACCTGCTGCTGGTG
GGCACCCAACAGCTGGGGGAGTTCCAGTGCTGGTCACTAGAGGAGGGCTTCCAGCAGCTGGTAGCCAGCTACTGC
CCAGAGGTGGTGGAGGACGGGGTGGCAGACCAAACAGATGAGGGTGGCAGTGTACCCGTCATTATCAGCACATCG
CGTGTGAGTGCACCAGCTGGTGGCAAGGCCAGCTGGGGTGCAGACAGGTCCTACTGGAAGGAGTTCCTGGTGATG
TGCACGCTCTTTGTGCTGGCCGTGCTGCTCCCAGTTTTATTCTTGCTCTACCGGCACCGGAACAGCATGAAAGTC
TTCCTGAAGCAGGGGGAATGTGCCAGCGTGCACCCCAAGACCTGCCCTGTGGTGCTGCCCCCTGAGACCCGCCCA
CTCAACGGCCTAGGGCCCCCTAGCACCCCGCTCGATCACCGAGGGTACCAGTCCCTGTCAGACAGCCCCCCGGGG
TCCCGAGTCTTCACTGAGTCAGAGAAGAGGCCACTCAGCATCCAAGACAGCTTCGTGGAGGTATCCCCAGTGTGC
CCCCGGCCCCGGGTCCGCCTTGGCTCGGAGATCCGTGACTCTGTGGT**GA**GAGCTGACTTCCAGAGGACGCTGC
CCTGGCTTCAGGGGCTGTGAATGCTCGGAGAGGGTCAACTGGACCTCCCCTCCGCTCTGCTCTTCGTGGAACACG
ACCGTGGTGCCCGGCCCTTGGGAGCCTTGGGGCCAGCTGGCCTGCTGCTCTCCAGTCAAGTAGCGAAGCTCCTAC
CACCCAGACACCCAAACAGCCGTGGCCCCAGAGGTCCTGGCCAAATATGGGGGCCTGCCTAGGTTGGTGGAACAG
TGCTCCTTATGTAAACTGAGCCCTTTGTTTAAAAAACAATTCCAAATGTGAAACTAGAATGAGAGGGAAGAGATA
GCATGGCATGCAGCACACGGCTGCTCCAGTTCATGGCCTCCCAGGGGTGCTGGGGATGCATCCAAAGTGGTTG
TCTGAGACAGAGTTGGAAACCCTCACCAACTGGCCTCTTCACCTTCCACATTATCCCGCTGCCACCGGCTGCCCT
GTCTCACTGCAGATTCAGGACCAGCTTGGGCTGCGTGCGTTCTGCCTTGCCAGTCAGCCGAGGATGTAGTTGTTG
CTGCCGTCGTCCCACCACCTCAGGGACCAGAGGGCTAGGTTGGCACTGCGGCCCTCACCAGGTCCTGGGCTCGGA
CCCAACTCCTGGACCTTTCCAGCCTGTATCAGGCTGTGGCCACACGAGAGGACAGCGCGAGCTCAGGAGAGATTT
CGTGACAATGTACGCCTTTCCCTCAGAATTCAGGGAAGAGACTGTCGCCTGCCTTCCTCCGTTGTTGCGTGAGAA
CCCGTGTGCCCCTTCCCACCATATCCACCCTCGCTCCATCTTTGAACTCAAACACGAGGAACTAACTGCACCCTG

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# FIGURE 4307B

GTCCTCTCCCCAGTCCCCAGTTCACCCTCCATCCCTCACCTTCCTCCACTCTAAGGGATATCAACACTGCCCAGC
ACAGGGGCCCTGAATTTATGTGGTTTTTATACATTTTTTAATAAGATGCACTTTATGTCATTTTTTAATAAAGTC
TGAAGAATTACTGTTT

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# FIGURE 4308

MLRTAMGLRSWLAAPWGALPPRPPLLLLLLLLLLLLQPPPPTWALSPRISLPLGSEERPFLRFEAEHISNYTALLL
SRDGRTLYVGAREALFALSSNLSFLPGGEYQELLWGADAEKKQQCSFKGKDPQRDCQNYIKILLPLSGSHLFTCG
TAAFSPMCTYINMENFTLARDEKGNVLLEDGKGRCPFDPNFKSTALVVDGELYTGTVSSFQGNDPAISRSQSLRP
TKTESSLNWLQDPAFVASAYIPESLGSLQGDDDKIYFFFSETGQEFEFFENTIVSRIARICKGDEGGERVLQQRW
TSFLKAQLLCSRPDDGFPFNVLQDVFTLSPSPQDWRDTLFYGVFTSQWHRGTTEGSAVCVFTMKDVQRVFSGLYK
EVNRETQQWYTVTHPVPTPRPGACITNSARERKINSSLQLPDRVLNFLKDHFLMDGQVRSRMLLLQPQARYQRVA
VHRVPGLHHTYDVLFLGTGDGRLHKAVSVGPRVHIIEELQIFSSGQPVQNLLLDTHRGLLYAASHSGVVQVPMAN
CSLYRSCGDCLLARDPYCAWSGSSCKHVSLYQPQLATRPWIQDIEGASAKDLCSASSVVSPSFVPTGEKPCEQVQ
FQPNTVNTLACPLLSNLATRLWLRNGAPVNASASCHVLPTGDLLLVGTQQLGEFQCWSLEEGFQQLVASYCPEVV
EDGVADQTDEGGSVPVIISTSRVSAPAGGKASWGADRSYWKEFLVMCTLFVLAVLLPVLFLLYRHRNSMKVFLKQ
GECASVHPKTCPVVLPPETRPLNGLGPPSTPLDHRGYQSLSDSPPGSRVFTESEKRPLSIQDSFVEVSPVCPRPR
VRLGSEIRDSVV

# FIGURE 4309A

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GGTGATTGTGTTGTTACAGTGCTGCTTGCTGAAGAGGACAAAGCTGAAGATGATGTAGTGTTTTACTTGGTATTT
TTGGGTTCCACCCTCCGTCACTGTACAAGTACTCGGAAGGTCAGTTCTGATACATTGGAGACCATTGCTCCTGGT
CATGATTGTTGTGAAACAGTGAAGGTGCAGCTCTGTGCTTCCAAAGAGGGCCTTCCCGTGTTTGTGGTGGCTGAA
GAAGACTTTCATTTCGTCCAGGATGAAGCGTATGATGCAGCTCAATTCCTAGCAACCAGTGCTGGAAATCAGCAG
GCTTTGAACTTTACCCGTTTTCTTGACCAGTCAGGACCCCCATCTGGGGATGTGAATTCCCTTGATAAGAAGTTG
GTGCTGGCATTCAGGCACCTGAAGCTGCCCACGGAGTGGAATGTATTGGGGACAGATCAGAGTTTGCATGATGCT
GGCCCGCGAGAGACATTGATGCATTTTGCTGTGCGGCTGGGACTGCTGAGGTTGACGTGGTTCCTGTTGCAGAAG
CCAGGTGGCCGCGGAGCTCTCAGTATCCACAACCAGGAAGGGCGACGCCTGTGAGCTTGGCCTTGGAGCGAGGCT
ATCACAAGCTGCACCAGCTTCTAACCGAGGAGAATGCTGGAGAACCAGACTCCTGGAGCAGTTTATCCTATGAAA
TACCGTATGGAGACTGTTCTGTGAGGCATCATCGAGAGTTGGACATCTATACATTAACCTCTGAGTCTGATTCAC
ATCATGAACACCCATTTCCTGGAGACGGTTGCACTGGACCAATTTTTAAACTTATGAACATCCAACAGCAACTAA
TGAAAACAAACCTCAAGCAGATGGACAGTCTTATGCCCTTAATGATGACAGCACAGGATCCTTCCAGTGCCCCAG
AGACAGATGGCCAGTTTCTTCCCTGTGCACCGGAGCCCACGGACCCTCAGCGACTTTCTTCTTCTGAAGAGACTG
AGAGCACTCAGTGCTGCCCAGGGAGCCCTGTTGCACAGACTGAAAGTCCCTGTGATTGTCAAGCATAGTTGAGG
AGGAGAATACAGACCGTTCCTGTAGGAAGAAAAATAAAGGCGTGGAAAGAAAAGGGGAAGAGGTGGAGCCAGCAC
CTATTGTGGACTCTGGAACTGTATCTGATCAAGACAGCTGCCTTCAGAGCTTGCCTGATTGTGGAGTAAAGGGCA
CGGAAGGCCTTTCGTCCTGTGGAAACAGAAATGAAGAAACTGGAACAAAATCTTCTGGAATGCCCACAGACCAGG
AGTCCCTGAGCAGTGGAGATGCTGTGCTTCAGAGAGACTTGGTCATGGAGCCAGGCACAGCCCAGTATTCCTCTG
GAGGTGAACTGGGAGGCATTTCAACAACAAATGTCAGTACCCCAGCACTGCAGGGGAAATGGAACATGGGCTCA
TGAACCCAGATGCCACTGTTTGGAAGAATGTGCTTCAGGGAGGGGAAAGTACAAAGGAAAGATTTGAGAACTCTA
ATATTGGCACAGCTGGAGCCTCTGACGTGCACGTCACAAGTAAGCCTGTGGATAAAATCAGTGTTCCAAACTGTG
CCCCTGCTGCCAGTTCCCTGGATGGTAACAAACCTGCTGAGTCTTCACTTGCATTTAGTAATGAAGAAACCTCCA
CTGAAAAAACAGCAGAAACGGAAACTTCACGAAGTCGTGAGGAGAGTGCTGATGCTCCAGTAGATCAGAATTCTG
TGGTGATTCCAGCTGCTGCAAAAGACAAGATTTCAGATGGATTAGAACCTTATACTCTCTTAGCAGCAGGCATAG
GTGAGGCAATGTCACCCTCAGATTTAGCCCTTCTTGGGCTGGAAGAAGATGTAATGCCACACCAGAACTCAGAAA
CAAATTCATCTCATGCTCAAAGCCAAAAGGGCAAATCCTCACCCATTTGTTCTACAACTGGAGACGATAAACTTT
GTGCAGACTCTGCATGTCAACAGAACACAGTGACTTCTAGTGGCGATTTGGTTGCAAAACTGTGTGATAACATAG
TTAGCGAGTCCGAAAGCACCACAGCAAGGCAACCCAGCTCACAAGATCCACCCGATGCCTCCCACTGTGAAGACC
CACAGGCTCATACAGTCACCTCTGACCCTGTAAGGGATACCCAGGAACGTGCGGATTTTTGTCCTTTCAAAGTGG
TGGATAACAAAGGCCAACGAAAAGATGTGAAACTAGATAAACCTTTAACAAATATGCTTGAGGTGGTTTCACATC
CACATCCAGTTGTCCCTAAAATGGAGAAAGAACTGGTGCCAGACCAGGCAGTAATATCAGACAGTACTTTCTCTC
TGGCAAACAGTCCAGGCAGTGAATCAGTAACCAAGGATGACGCACTTTCTTTTGTCCCCTCCCAGAAAGAAAAGG
GAACAGCAACTCCTGAACTACATACAGCTACAGATTATAGAGATGGCCCAGATGGAAATTCGAATGAGCCTGATA
CGCGGCCACTAGAAGACAGGGCAGTAGGCCTGTCCACATCCTCCACTGCTGCAGAGCTTCAGCACGGGATGGGGA
ATACCAGTCTCACAGGACTTGGTGGAGAGCATGAGGGTCCCGCCCCTCCAGCAATCCCAGAAGCTCTGAATATCA
AGGGGAACACTGACTCTTCCCTGCAAAGTGTGGGTAAGGCCACTTTGGCTTTAGATTCAGTTTTGACTGAAGAAG
GAAAACTTCTGGTGGTTTCAGAAAGCTCTGCAGCTCAGGAACAAGATAAGGATAAAGCGGTGACCTGTTCCTCTA
TTAAGGAAAATGCTCTCTCTTCAGGAACTTTGCAGGAAGAGCAGAGAACACCACCTCCTGGACAAGATACTCAAC
AATTTCATGAAAAATCAATCTCAGCTGACTGTGCCAAGGACAAAGCACTTCAGCTAAGTAATTCACCGGGTGCAT
CCTCTGCCTTTCTTAAGGCAGAAACTGAACATAACAAGGAAGTGGCCCCACAAGTCTCACTGCTGACTCAAGGTG
GGGCTGCCCAGAGCCTGGTGCCACCAGGAGCAAGTCTGGCCACAGAGTCAAGGCAGGAAGCCTTGGGGGCAGAGC
ACAACAGCTCCGCTCTGTTGCCATGTCTGTTGCCAGATGGGTCTGATGGGTCCGATGCTCTTAACTGCAGTCAGC
CTTCTCCTCTGGATGTTGGAGTGAAGAACACTCAATCCCAGGGAAAAACTAGTGCCTGTGAGGTGAGTGGAGATG
TGACGGTGGATGTTACAGGGGTTAATGCTCTACAAGGTATGGCTGAGCCCAGAAGAGAGAATATATCACACAACA
CCCAAGACATCCTGATTCCAAACGTCTTGTTGAGCCAAGAGAAGAATGCCGTTCTAGGTTTGCCAGTGGCTCTAC
AGGACAAAGCTGTGACTGACCCACAGGGAGTTGGAACCCCAGAGATGATACCTCTTGATTGGGAGAAAGGGAAGC
TGGAGGGAGCAGACCACAGCTGTACCATGGGTGACGCTGAGGAAGCCCAAATAGACGATGAAGCACATCCTGTCC
TACTGCAGCCTGTTGCCAAGGAGCTCCCCACAGACATGGAGCTCTCAGCCCATGATGATGGGGCCCCAGCTGGTG
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# FIGURE 4309B

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TGAGGGAAGTCATGCGAGCCCCGCCTTCAGGCAGGGAAAGGAGCACTCCCTCTCTACCTTGCATGGTCTCTGCCC
AGGACGCACCTCTGCCTAAGGGGGCAGACTTGATAGAGGAGGCTGCCAGCCGTATAGTGGATGCTGTCATCGAAC
AAGTCAAGGCCGCTGGAGCACTGCTTACTGAGGGGGAGGCCTGTCACATGTCACTGTCCAGCCCTGAGTTGGGTC
CTCTCACTAAAGGACTAGAGAGTGCTTTTACAGAAAAAGTGAGTACTTTCCCACCTGGGGAGAGCCTACCAATGG
GCAGTACTCCTGAGGAAGCCACGGGGAGCCTTGCAGGATGTTTTGCTGGAAGGGAGGAGCCAGAGAAGATCATTT
TACCTGTCCAGGGGCCTGAGCCAGCAGCAGAAATGCCAGACGTGAAAGCTGAAGATGAAGTGGATTTTAGAGCAA
GTTCAATTTCTGAAGAAGTGGCTGTAGGGAGCATAGCTGCTACACTGAAGATGAAGCAAGGCCCAATGACCCAGG
CGATAAACCGAGAAAACTGGTGTACAATAGAGCCATGCCCTGATGCAGCATCTCTTCTGGCTTCCAAGCAGAGCC
CAGAATGTGAGAACTTCCTGGATGTTGGACTGGGCAGAGAGTGTACCTCAAAACAAGGTGTACTTAAAAGAGAAT
CTGGGAGTGATTCTGACCTCTTTCACTCACCCAGTGATGACATGGACAGCATCATCTTCCCAAAGCCAGAGGAAG
AGCATTTGGCCTGTGATATCACCGGATCCAGTTCATCCACCGATGACACGGCTTCACTGGACCGACATTCTTCTC
ATGGCAGTGATGTGTCTCTCTCCCAGATTTTAAAGCCAAACAGGTCAAGAGATCGGCAAAGCCTTGATGGATTCT
ACAGCCATGGGATGGGAGCTGAGGGTCGAGAAAGTGAGAGTGAGCCTGCTGACCCAGGCGACGTGGAGGAGGAGG
AGATGGACAGTATCACTGAAGTGCCTGCAAACTGCTCTGTCCTAAGGAGCTCCATGCGCTCTCTTTCTCCCTTCC
GGAGGCACAGCTGGGGGCCTGGGAAAAATGCAGCCAGCGATGCAGAAATGAACCACCGGAGTATGAGCTGGTGCC
CCTCTGGTGTGCAGTACTCTGCTGGCCTGAGTGCTGACTTTAATTACAGAAGTTTCAGTCTAGAAGGCTTGACAG
GAGGAGCTGGTGTCGGAAACAAGCCATCCTCATCTCTAGAAGTAAGCTCTGCAAATGCCGAAGAGCTCAGACACC
CATTCAGTGGTGAGGAACGGGTTGACTCTTTGGTGTCACTTTCAGAAGAGGATCTGGAGTCAGACCAGAGAGAAC
ATAGGATGTTTGATCAGCAGATATGTCACAGATCTAAGCAGCAGGGATTTAATTACTGTACATCAGCCATTTCCT
CTCCATTGACAAAATCCATCTCATTAATGACAATCAGCCATCCTGGATTGGACAATTCACGGCCCTTCCACAGTA
CCTTCCACAATACCAGTGCTAATCTGACTGAGAGTATAACAGAAGAGAACTATAATTTCCTGCCACATAGCCCCT
CCAAGAAAGATTCTGAATGGAAGAGTGGAACAAAAGTCAGTCGTACATTCAGCTACATCAAGAATAAAATGTCTA
GCAGCAAGAAGAGCGAAAAGGAAAAAGAAAAAGATAAGATTAAGGAGAAGGAGAAAGATTCTAAAGACAAGGAGA
AAGATAAGAAGACTGTCAACGGGCACACTTTCAGTTCCATTCCTGTTGTGGGTCCCATCAGCTGTAGCCAGTGTA
TGAAGCCCTTCACCAACAAAGATGCCTATACTTGTGCAAATTGCAGTGCTTTTGTCCACAAAGGCTGCCGAGAAA
GTCTAGCCTCCTGTGCAAAGGTCAAAATGAAGCAGCCCAAAGGGAGCCTTCAGGCACATGACACATCATCACTGC
CCACGGTCATTATGAGAAACAAGCCCTCACAGCCCAAGGAGCGTCCTCGGTCCGCAGTCCTCCTGGTGGATGAAA
CCGCTACCACCCCAATATTTGCCAATAGACGATCCCAGCAGAGTGTCTCGCTCTCCAAAAGTGTCTCCATACAGA
ACATTACTGGAGTTGGCAATGATGAGAACATGTCAAACACCTGGAAATTCCTGTCTCATTCAACAGACTCACTAA
ATAAAATCAGCAAGGTCAATGAGTCAACAGAATCACTTACTGATGAGGGAGTAGGTACAGACATGAATGAAGGAC
AACTACTGGGAGACTTTGAGATTGAGTCCAAACAGCTGGAAGCAGAGTCTTGGAGTCGGATAATAGACAGCAAGT
TTCTAAAACAGCAAAAGAAAGATGTGGTCAAACGGCAAGAAGTAATATATGAGTTGATGCAGACAGAGTTTCATC
ATGTCCGCACTCTCAAGATCATGAGTGGTGTGTACAGCCAGGGGATGATGGCGGATCTGCTTTTTGAGCAGCAGA
TGGTAGAAAAGCTGTTCCCCTGTTTGGATGAGCTGATCAGTATCCATAGCCAATTCTTCCAGAGGATTCTGGAGC
GGAAGAAGGAGTCTCTGGTGGATAAAAGTGAAAAGAACTTTCTCATCAAGAGGATAGGGGATGTGCTTGTAAATC
AGTTTTCAGGTGAGAATGCAGAACGTTTAAAGAAGACATATGGCAAGTTTTGTGGGCAACATAACCAGTCTGTAA
ACTACTTCAAAGACCTTTATGCCAAGGATAAGCGTTTTCAAGCCTTTGTAAAGAAGAAGATGAGCAGTTCAGTTG
TTAGAAGGCTTGGAATTCCAGAGTGCATATTGCTTGTAACTCAGCGGATTACCAAGTACCCAGTTTTATTCCAAA
GAATATTGCAGTGTACCAAAGACAATGAAGTGGAGCAGGAAGATCTAGCACAGTCCTTGAGCCTGGTGAAGGATG
TGATTGGAGCTGTAGCAGCAAAGTGGCAAGTTATGAAAAGAAAGTGCGTCTCAATGAGATTTATACAAAGACAG
ATAGCAAGTCAATCATGAGGATGAAGAGTGGTCAGATGTTTGCCAAGGAAGATTTGAAACGGAAGAAGCTTGTAC
GTGATGGGAGTGTGTTTCTGAAGAATGCAGCAGGAAGGTTGAAAGAGGTTCAAGCAGTTCTTCTCACTGACATTT
TAGTTTTCCTTCAAGAAAAAGACCAGAAGTACATCTTTGCATCATTGGACCAGAAGTCAACAGTGATCTCTTTAA
AGAAGCTGATTGTGAGAGAAGTGGCACATGAGGAGAAAGGTTTATTCCTGATCAGCATGGGGATGACAGATCCAG
AGATGGTAGAAGTCCATGCCAGCTCCAAAGAGGAACGAAACAGCTGGATTCAGATCATTCAGGACACAATCAACA
CCCTGAACAGAGATGAAGATGAAGGAATTCCTAGTGAGAATGAGGAAGAAAAGAAAATGTTGGACACCAGAGCCC
GAGAATTAAAAGAACAACTTCACCAGAAGGACCAAAAAATCCTACTCTTGTTGGAAGAGAAGGAGATGATTTCC
GGGACATGGCTGAGTGCAGCACCCCTCTCCCAGAGGATTGCTCCCCAACACATAGCCCTAGAGTTCTCTTCCGCT
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4674/6881
# FIGURE 4309C

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CCAACACAGAAGAGGCTCTCAAAGGAGGACCTTTAATGAAAAGTGCAATAAATGAGGTGGAGATCCTTCAGGGTT
TGGTGAGTGGAAATCTGGGAGGCACACTTGGGCCGACTGTCAGCAGCCCCATTGAGCAAGATGTGGTCGGTCCCG
TTTCCCTGCCCCGGAGAGCAGAGACCTTTGGAGGATTTGACAGCCATCAGATGAATGCTTCAAAAGGAGGCGAGA
AGGAAGAGGGAGATGATGGCCAAGATCTTAGGAGAACGGAATCAGATAGTGGCCTAAAAAAGGGTGGAAATGCTA
ACCTGGTATTTATGCTTAAAAGAAACAGTGAGCAGGTTGTCCAGAGCGTTGTTCATCTCTACGAGCTCCTCAGCG
CTCTGCAGGGTGTGGTGCTGCAGCAGGACAGCTACATTGAGGACCAGAAACTGGTGCTGAGCGAGAGGGCGCTCA
CTCGCAGCTTGTCCCGCCCGAGCTCCCTCATTGAGCAGGAGAAGCAGCGCAGCCTGGAGAAGCAGCGCCAGGACC
TGGCCAACCTGCAGAAGCAGCAGGCCCAGTACCTCGAGGAGAAGCGCAGGCGCGAGCGTGAGTGGGAAGCTCGTG
AGAGGGAGCTGCGGGAGCGGGAGGCCCTCCTGGCCCAGCGCGAGGAGGAGGTGCAGCAGGGGCAGCAGGACCTGG
AAAAGGAGCGGGAGGAGCTCCAGCAGAAGAAGGGCACATACCAGTATGACCTGGAGCGACTGCGTGCTGCCCAGA
AACAGCTTGAGAGGGAACAGGAGCAGCTGCGCCGGGAGGCAGAGCGGCTCAGCCAGCGGCAGACAGAACGGGACC
TGTGTCAGGTTTCCCATCCACATACCAAGCTGATGAGGATCCCATCGTTCTTCCCCAGTCCTGAGGAGCCCCCCT
CGCCATCTGCACCTTCCATAGCCAAATCAGGGTCATTGGACTCAGAACTTTCAGTGTCCCCAAAAAGGAACAGCA
TCTCTCGGACACACAAAGATAAGGGGCCTTTTCACATACTGAGTTCAACCAGCCAGACAAACAAAGGACCAGAAG
GGCAGAGCCAGGCCCCTGCGTCCACCTCTGCCTCTACCCGCCTGTTTGGGTTAACAAAGCCAAAGGAAAAGAAGG
AGAAAAAAAAGAAGAACAAAACCAGCCGCTCTCAGCCCGGTGATGGTCCCGCGTCAGAAGTATCAGCAGAGGGTG
AAGAGATCTTCTGCTGACCCTCTTCCTCTCTGCTGAGGCAGCTGCCTCCTGATCCTGGCCAGCCCACCTCTCCTG
CTGTCCCCGCGTGCACAAGTCTCTTACACTGGACGCCCACTGCTCCTCAGCGTCCAGTCCTCCTGGGCGGCCCCA
GGTCCTGGACAATAAGCAACAGATGATATTGAGTGTCGGGTGGGGAAGGAGGCCCAGACTCTGCTTCGGCCATGA
TTTGTGACTGCCCAGGACTCTCAGGTTGGGCTGGCCCTACTCAGGATTACACTGAAAGTAATGGCCTCGTAAGTA
CAGGTGATGGTTTTGGACACGTCAGGAATTCCTAAAGGCTGAAAGAGTGTATCCAAGTAAGGTCTGAACCTCCGA
ATGCCTTTTATTTGGGGGAACACAAAACCAAACAGCAGATGTTTTGGACTTGATCTGTGTACGTACATGGGGACC
TGTCTGCATATACACACGGGGAATGCCAGAAGAAGGCCCAGTCTGCACCAGGCGTCTGGTCAACTTAGCACAAGG
GCAGTGCCTGGACGGACCCGGAGCCCCCGCATATCAGCAGTTCACCCAGTACTCCTCAGAGACTGGTTTCCCTCT
AAACCCATCCCGGGCACATACCACCCGTGTTTTGCATGTATTTCTCATTTCATTTTAGGGATGACAAACATTTGT
GAAACCAGTGAGAGAAGGCTTGATGTGTATAAAAGACGTGATGTGCACCACCTCGATCTCGGTGTTTCAGGCACT
AAAGCAACAAAACAACCCATAGTATCTCATTCTGTCATCAGATCCAGAAGAAATATCCTGGTTTTCCAGCATGTT
TACCCACATGTTTTGGCCATGGATAAAGTGAAGAGGCCTACTCACCATTATCCCTGCAGCGTGACACCTTTTGAT
TGTCACTGACCACTCAGAAGGGGCCACGGCCTCCTGGCTGTGTTCCTGAGCCCCCGTCGTGCCTCTCCCAGACAG
CAGCTGTCTGGCCCTTGCTGGGTGAGGGCACACCACTGCCAGGGGTCAGCCTCGCACCCAGGCCAGGCAGAAGCT
GTGCTCTGAAGCTAGGACAGCTGGCTGAGAAGTGGGTTCAGGCGAAGGGTGAAGCCATGTGTAGCAGTTCCTGCC
AGTGCAGATCTGGAGAGGAGCTGGCCCGGAAGGCGTGGTTGTGAAAGCGCCCTTCTTATGTTAGGAGGCCTTGGC
AAAATTGGATTTCTTCAAAAATACATGTAAAGGTCTGTTGTTGAATTGTACTCTGCCCCTGGAAGCAGATACAGA
TGGCTGCCTGCTGCTCGGCTTTGCTTTTGCTTTTCCACCGTGTTTTCATCTTTGTTCACTTGAGGCTTTCCCCA
GCTGGTGTGTGCAGGACAGTTCATGGTAATGTTGCCCTCTGAGGCCCCGTACACCAGAAGGGAGGCCCTGGAAAA
TTTTGTGCTTCCAACGTGGCCTTCAATTCTTGCTTTTTTGCCCCTCGGAAGCATGGGCTTTTGAGCACACTTAA
AAAAAGAAAA
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# FIGURE 4310

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GAAAAACAAAAAGAATCTTTGTTTTACCCCGAAAGAGAGGCAGAGGCAGAAAGTCTTCTTCTGCTTTTTGCATCT
CTAAGAGGCTGAAAAAGAGAATGGAAGTGCTGGGGCATTTTGGCCAGGGCAGTAATGGATATTTGGAGTTGGCAC
TTCCCTCAGCTAGAGGAGTCTCAGTGTGTCTGAGAAAATGGCAGTCAGCCATCCAGGATTTTAGGAGCAACGCCA
CTGCTCTGTGCCACATCAGAAATCAGGCATGGCCCCAACCTGAAGGAACTTGTAGCTTAATGGGGAAGCACACCA
AGAATAAAAGAGCCTCCAGAACATGTGGTGCCTGTGGTCCTGAGACAGCAGGAAATGGCTCTCAGGCCAGAGTTG
CTGGAAGAACCCATGTGGCAGGATCGGTGGGAGGCAGTTACAGAGGGAAACGCCCATCCCAGCAACTAGGGGAGG
CCGCCACTCCTCTCGTGGATGGATGATATTCTTGCTTGGGGATGTTGAGACAGCTGCACTCTGCATAGTTCCTGA
TTTGCCTCTCTACTGCTGATGAAAAACCTCTCTTTCTCTATAGCTGCTGCTTATATTGGAAGGCTTTTGGTTATT
CAGCACACTCACTCCTGAGCTTATTTCAGTGATATTCCTTGGTTATTTCGAAACATGGATGCTTGTGGCAGATGG
AGAGCCTGGGTGTACACAGATCTGCCTGTGTTTTGAAATGCATACCATGTTGCCGTTTGTTTGATTGATTGATCT
TGGACCACGAAAGAAAATTATACTGACAGCTTCCAGGGTAGGGGGCAGTTGTAGCTTTCTGCAGATGTTGCCAAA
TATATTGGGGGTGGGGAGCAGCAAATGCCATGTGTTGCTTTTTATGACATAAGGAGGGATTCCACCCCCATCCCA
ATAAAATCGGTGCTTTGACAAAGGAGGGTTCCCAGGCAGCTAAGAGAACCCAGAGTAGATGATCCTCTTTATCTC
TGGTTTAACCTGTGACTAGGATTCTTGGTGTAAGCTCGGCTTTTCCACTTATCCTCTAACCGGAACAGGCTTCTA
TAATCTCTTTGCCTTAAAATAATTATCTGCATCCCTGTGTAGAGCAATCTTAAGCAGCTCTCCTTGTTTCTTCAG
GGAATGGGAATTCTTTTCTAAGTCGCCCCATCAAAGGTACTATTGGTTTTTTACAACGCCGGCGTTTGTGTATGT
AGTAAAAGTATTAACAGCATTAAAGGCGATATTTTTAACATGTTTATAGATACTACTTGGGGGAGGGCAGCTAAT
GAAACCTTCAAGCTCTATGCAGTCCACAGACGTGAGCTCTGTAGAGTTCGCAGAGGTGGGTAAGTACCCAGCCAG
CACACCCAGTTGAATTCAGCCAGGATTTATTGAGTTGGCATCACAGACGCTGACAGCCTCCAAGTGAAAACCCTT
CTCTTGAATATGTACAGGTTTCCCATCCACATACCAAGCTGATGAGGATCCCATCGTTCTTCCCCAGTCCTGAGG
AGCCCCCCTCGCCATCTGCACCTTCCATAGCCAAATCAGGGTCATTGGACTCAGAACTTTCAGTGTCCCCAAAAA
GGAACAGCATCTCTCGGACACACAAAGATAAGGGGCCTTTTCACATACTGAGTTCAACCAGCCAGACAAACAAAG
GACCAGAAGGGCAGAGCCAGGCCCCTGCGTCCACCTCTGCCTCTACCCGCCTGTTTGGGTTAACAAAGCCAAAGG
AAAAGAAGG .
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# FIGURE 4311A

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TCTGTTAAATGTTCCGAAGCCACTGCCAAAACAACTGTGGGAGACCAAGGAGATTCAGTCCCTGTCAGGACGCCC
TCGATCCTGTGATGTTGGAGGTGGCAATGCTTTTCCACATAATGGTCAAAACCTAGGCCTCTCACCCTTCTTGGG
GACCTTGAACACTGGAGGGTCATTGCCAGATCTAACCAACCTCCACTACTCGACACCCCTGCCAGCCTCCCTGGA
CACCACCGACCACCACTTTGGCAGTATGAGTGTGGGGAATAGTGTGAACAACATCCCAGCTGCTATGACCCACCT
GGGTATAAGAAGCTCCTCTGGTCTCCAGAGTTCTCGGAGTAACCCCTCCATCCAAGCCACGCTCAATAAGACTGT
GCTTTCCTCTTCCTTAAATAACCACCCACAGACATCTGTTCCCAACGCATCTGCTCTTCACCCTTCGCTCCGTCT
GTTTTCCCTTAGCAACCCATCTCTTTCCACCACAAACCTGAGCGGCCCGTCTCGGCGTCGGCAGCCTCCCGTCAG
CCCTCTCACGCTTTCTCCTGGCCCTGAAGCACATCAAGGTTTCAGCAGACAGCTGTCTTCAACCAGCCCACTGGC
CCCATATCCTACCTCCCAGATGGTGTCCTCAGACCGAAGCCAACTTTCCTTTCTGCCCACAGAAGCTCAAGCCCA
GGTGTCGCCGCCACCCCCTTACCCTGCACCCCAGGAGCTCACCCAGCCCCTCCTGCAGCAGCCCCGCGCCCCTGA
GGCCCCTGCCCAGCAGCCCCAGGCAGCCTCCTCACTGCCACAGTCAGACTTTCAGCTTCTCCCGGCCCAGGGCTC
ATCTTTGACCAACTTCTTCCCAGATGTGGGTTTTGACCAGCAGTCCATGAGGCCAGGCCCTGCCTTTCCTCAACA
GGTGCCTCTGGTGCAACAAGGTTCCCGAGAACTGCAGGACTCTTTTCATTGAGACCAAGCCCGTATTCCAACTG
CGGGAGTCTCCCGAACACCATCCTGCCAGACTCCAGCACCAGCCTGTTCAAAGACCTCAACAGTGCGCTGGCAGG
CCTGCCTGAGGTCAGCCTGAACGTGGACACTCCATTTCCACTGGAAGAGGAGCTGCAGATTGAACCCCTGAGCCT
GGACGGACTCAACATGTTAAGTGACTCCAGCATGGGCCTGCTGGACCCCTCTGTTGAAGAGACGTTTCGAGCTGA
CAGACTGTGAACAGAAGGCAGTGGAACAGAAGAATGTTTTTCTGCAACAGCCAAAATAGAATGGAATAGAATGAA
GCCAGCTGATACCACGGGCTTTCGTTATCTTGACATAGAAGGAAGCAATGCCACGGCTCCAGGGTTTCAGATGAG
ATCCCATCTCAGACACTGTGGCTTCCTCCAGATCACACAGCTTTGTACTGCCTCTCCCGCCTGTGGCCAAAGTCG
TGTTGCAGCAGGCAGGCTGCTTGGAGCTTCCCATGAACTGGAAAGCTCACCTCCACTGCATCTTTTTACTGGCCA
TCCAGTCAGCCGATGTGTAAGAGTAGGAAATACTGTGTCACTGGAGGCCTCCGTAGCATTGTGTAGTGTGCTCAG
AACCACTGATCTCCGTCCGCACCGAAGGCGGGCCCGGAGTGGGAGGCTCGGCCTGGGGCGGCGGCACCGGAGAGG
GCACCTCGATGCCTGCTCTGACCTGACCCAGAGGGCGAGGCCCTCCAGCGGGGGACATTCCCAGGCTGAGTGGAC
CCCACGGCTCTCTCCCACGCCTGGATTACGACATGAAGTTTTTACCACAAGCCCGAGGGCAGGCTTGAGTTAGGC
AGACTGAAGGCTAATTTTCATTTTCTCCCAGCTGGTTTCTGCTGCTTCAGAAAAGTACACCTTTTCCTTATGGAC
CAGAGGAAGAGGAAGACCATTTTATCAGTCACTGAAAAGAGTCCCCTGGCACTGATGAGCCTGAAGAGAACTGTG
CTCCTCCTCGGGGGGCTGGGGAAGGAAGACAGGGACTGCAGGTGTCTCATACTCAGTGGCCTCCAGACAAACTCCA
GACAAGCACAGACCTCCCCACTAAGAGCAGCCAGAGGGAGCTGGTGAGGCCCTAACCCCACCCACCGAGCAACTG
AGCTTCCCCATCCCTCCCCAGAGCTGTGTCTCTGTGGGCTGGGAGTCTAATGTCACCCCCCTAGACCGTAAGCTC
CTTGAGGGCAGGGACAGTGCCTTATCATTGTTGAACCCGTAGCACCTAACACGTGCGTGGCAGCACAGTCGTGTG
CTGGAGTGAGTGCTGCAGAACCGTGCGTGCAGCGCATGATGAATGAGTGCGTCCGCCATGCCGTAAGGCAGGCTC
ACCTGTAGCTATCCCCTTCCCTGCCAGATCTTCTCAGAGCTTTAGCTTTTCTAGCACTCGTGCCTATGGTGAAGC
ATGCACTTTAATATGCTTTTAACACTAGGTGACCAAATCACAGTGAAGCCGGGCACTGCATTCTCCTTGGGCTGT
GCTCCACGCGGGTGGGTGGGAGCTGTCTTCTGAGTACATCCGGAAGGGCTGAGCAGGTGAGTGCCCTGAGCATCC
TGGCTGGGCCCCACCCAGGAAGATCTTCCTTCTCAGATCCACGTTTGGCTCTAAATTGCTTCAAGTAGAGATTCA
TTCTTTGAGGTTGAAAAAATAGTTTATAGTAAAACGAAGGCCTAATTCATGGAAGCATCATTAGTCATCAATACC
TTCTCATAAAATAGATGGGCCAGATTTCCACCACCGCCTGCCTCCTCTAACTTGGGTGATGCCAGTAGGTTTGAA
GGGGGCAGAGCATTGCAGGGGGAGGGGGGGTCTAGGCTGTGAGAGGACAGGGTGGAGAGGAGGAGAACCCTGAA
GGAGAGACGGAAGATGCCAGGACCTTTGCTTGGACAGCCATTGCCCTTCCAGGAGACCCTGGAGTGTACTGAGGG
TTGCTGGACTGTTCCACCCAGAGGAGCAAGGCTGTACAATGAGGGTCTGAATCTGGCACACCTGTCCCTTATGTA
AAAGGAGTCGTGGTCACAAGACCCTGGGCTGGTTAGCCTCTCCCGACCTCATTCCATTTCTATCTTCTGACCTTG
CCTCTCATCTTTAAAATAACCCTCATGGGGTGCCCCTCCACCTTCCTCTGGAATCCAAGTATTCCTGTTTCACAT
TTGCCCCAAATCTTTGCTGTGGAATTGGGAAATCAAACCAGAGTCCTCCTCGCCTGATTTCCAGCTCAGGAAGGG
CCTGCTGGCCTGCCCTGTTCCCAGTTACACTTTCAGATCCCTTTGTGCTCAAGATCTCAGAGGGGGTGGCTTTTT
GTTAAAGAGCCTTCAGTCGCAATGCTACCCAGCACCCCATGTGCCAAAAGAAACCAGCTCCTGTGTCAAAGGGCT
TCCAAACCTGATCTCACTCTCAACAGGCGATGGTGCTGATGTTTCAAGAATTGTGTTTTTATAAAACAGAGGTCT
CAGCATAGTCACTCTTCACATAGTGCCTTACCCATGGGTATCGTCATATCCGGGTCCCAGTTCAGTTTGTCTGCA
CAGCAGCCACCCTGCCTGGCAACAGAGACCCCAAGACCTACACAGTGAACCCTACTGCCCCAAAGGCGTTCTCCA
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4677/6881
# FIGURE 4311B

GGTGACTTGTGAAAACAGACCTCCGGGGAAGTGATTTATTGGGGGTGTACACTGGGGGCAATATGGTTTAGCACT
GAATTCAATTTGTCCTTAGGTCTATGAGTGAGTCCGATCTTTTCTTGTGAAAGGTTTTGGGCATCGTACAACCCA
CTCTGCCTAGAAGGTGTGGAGGACTCACCACGGGCAGGGTCGCCCTGGCCCACAGCACGTGAGCCTGCACTCACT
GCGGCCTTTGTAACAAAACCAGTTGTGGTCCTCAGCATTTGAAGCAGCTGCATACTTCAGAGTAAACTATTTTTC
ATTATTTAGTTTTGTCACAAGAAATCGACCATTGTACTACTCTCACTTACAGCAGTTAAACAGCATAGAACTAAA
AACCTGTCTGCATTTCCATTTTTTCTTTCTGTATGGTTGTGGGTTTTAGGACATAGGGGGTTAGGAGAAGGGGTT
TCTTGATCATGTCATGAATTCTCCTTTGTCCTGTTTCTCCTGTTTCATTTCTCCTCCGCCTGCTGTATATTACCT
GAGCTGGTGTTGTATCTTCAAGTCCATATGCGTATTTGCAGACCTTTCCTGTTCCCACTCTTGTTGGCTCTTCTG
ATTTATGCACAGATGGTTCCCAGCATGTGTCCAGTGCTTCATGGATGGGACCATCCCAGCAACTAATCAGACTTC
CTGCCAGTGTCCTAACCCCCAGGGCACCCTGTTCAACCATATTTAAAAATTGGAATTTGTATAAAGTTGCTTCCA
AGTTTTATAATGCATCATTTTACATCTTTTGTAATTAAAAGCATCACAATGAGGTTGTCTCTGC

4678/6881
# FIGURE 4312

TTTTTCTGGTAGAAGGCGGGGTTCTCCTCGTACGCTGCGGAGTCTCTGCGGGGTGTAGACCGGAATCCTGCTGAC
GGGCAGAGTGGATCAGGGAGGGAGGGTCGAGACACGGTGGCTGCAGGTCTGAGACAAGGCTGCTCCGAGGTAGTA
GCTCTCTTGCCTGGAGGTGGCCATTCATTCCTGGAGTGCTGCTGAGGAGCGAGGGCCCATCTGGGGTCTCTGGAA
GTCGGTGCCCAGGCCTGAAGGATAGCCCCCCTTGCGCTTCCCTGGGCTGCGGCCGGCCTTCTCAGAACGAAGGGC
GTCCTTCCACCCCGCGGCGCAGGTGACCGCTGCC**ATG**GCTTTTCCCCATCGGCCGGACGCCCCTGAGCTGCCTGA
CTTCTCCATGCTGAAGAGGCTGGCTCGAGACCAGCTCATCTATCTGCTGGAGCAGCTTCCTGGAAAAAAGGATTT
ATTCATTGAGGCAGATCTCATGAGCCCTTTGGATCGAATTGCCAATGTCTCCATCCTGAAGCAACACGAAGTAGA
CAAGCTATACAAGGTGGAGAACAAGCCAGCCCTCAGCTCCAATGAACAATTGTGCTTCTTGGTCAGACCCCGCAT
CAAGAATATGCGATACATTGCCAGTCTTGTCAATGCTGACAAATTGGCTGGCCGAACTCGCAAATACAAAGTGAT
CTTCAGCCCTCAAAAGTTCTATGCGTGTGAGATGGTGCTTGAGGAAGAGGGAATCTATGGAGATGTGAGCTGTGA
TGAATGGGCCTTCTCTTTGCTGCCTCTTGATGTGGATCTGCTGAGCATGGAACTACCAGAATTTTTCAGGGATTA
CTTTCTGGAAGGAGATCAGCGTTGGATCAACACTGTAGCTCAGGCCTTACACCTTCTCAGCACTCTCTATGGACC
CTTTCCAAACTGCTATGGAATTGGCAGGTGCGCCAAGATGGCATATGAATTGTGGAGGAACCTGGAGGAGGAGGA
GGATGGCGAAACCAAGGGCCGAAGGCCAGAGATTGGACATATCTTTCTCTTGGACAGAGATGTGGACTTTGTGAC
AGCACTTTGCTCCCAAGTGGTTTATGAGGGCCTAGTAGATGACACCTTCCGCATCAAGTGTGGGAGTGTCGACTT
TGGCCCAGAAGTCACATCCTCTGACAAGAGCCTGAAGGTGCTACTCAATGCCGAGGACAAGGTGTTTAATGAGAT
TCGGAACGAGCACTTCTCCAATGTCTTTGGCTTCTTGAGCCAGAAGGCCCGGAACTTGCAGGCCCAGTATGATCG
CCGGAGAGGCATGGACATTAAGCAGATGAAGAATTTCGTGTCCCAGGAGCTCAAGGGCCTGAAACAGGAGCACCG
CCTGCTGAGTCTCCATATTGGGGCCTGTGAATCCATCATGAAGAAGAAAACCAAGCAGGATTTCCAGGAGCTAAT
CAAGACTGAGCATGCACTGCTAGAGGGGTTCAACATCCGGGAGAGCACCAGCTACATTGAGGAACACATAGACCG
GCAGGTGTCGCCTATAGAAAGCCTGCGCCTCATGTGCCTTTTGTCCATCACTGAGAATGGTTTGATCCCCAAGGA
TTACCGATCTCTGAAAACACAGTATCTGCAGAGCTATGGCCCTGAGCACCTGCTAACCTTCTCCAATCTGCGAAG
AGCTGGGCTCCTAACGGAGCAGGCCCCCGGGGACACCCTCACAGCCGTGGAGAGTAAAGTGAGCAAGCTGGTGAC
CGACAAGGCTGCAGGAAAGATTACTGATGCCTTCAGTTCTCTGGCCAAGAGGAGCAATTTTCGTGCCATCAGCAA
AAAGCTGAATTTGATCCCACGTGTGGACGGCGAGTATGATCTGAAAGTGCCCCGAGACATGGCTTACGTCTTCAG
TGGTGCTTATGTGCCCCTGAGCTGCCGAATCATTGAGCAGGTGCTAGAGCGGCGAAGCTGGCAGGGCCTTGATGA
GGTGGTACGGCTGCTCAACTGCAGTGACTTTGCATTCACAGATATGACTAAGGAAGACAAGGCTTCCAGTGAGTC
CCTGCGCCTCATCTTGGTGGTGTTCTTGGGTGGTTGTACATTCTCTGAGATCTCAGCCCTCCGGTTCCTGGGCAG
AGAGAAAGGCTACAGGTTCATTTTCCTGACGACAGCAGTCACAAACAGCGCTCGCCTTATGGAGGCCATGAGTGA
GGTGAAAGCC**TGA**TGTTTTTCCCGGCCAGTGTTGACATCTTCCCTGAACACATTCCTCAGTGAGATGCAGGCATC
TGGCACCCAGCTGCTATAACCAAGTGTCCACCAACTACCTGCTAAGAGCCGGGAGCATGGAACGTGTTGGGATTT
AGAGAACATTATCTGAGAAAAGAGTTCACTTCCTGCTCCCAGGATATTTCTCTTTTCTGTTTATGAAGTACAACC
CATGCTGCTAAGATGCGAGCAGGAAGAGGCATCCTTTGCTAAATCCTGTTTGAATGTCATTGTAAATAAAGCCTC
TGCTCTCAGATGTAAAAAAAAAAAAAAAAAAAAAA

4679/6881
# FIGURE 4313

MAFPHRPDAPELPDFSMLKRLARDQLIYLLEQLPGKKDLFIEADLMSPLDRIANVSILKQHEVDKLYKVENKPAL
SSNEQLCFLVRPRIKNMRYIASLVNADKLAGRTRKYKVIFSPQKFYACEMVLEEEGIYGDVSCDEWAFSLLPLDV
DLLSMELPEFFRDYFLEGDQRWINTVAQALHLLSTLYGPFPNCYGIGRCAKMAYELWRNLEEEEDGETKGRRPEI
GHIFLLDRDVDFVTALCSQVVYEGLVDDTFRIKCGSVDFGPEVTSSDKSLKVLLNAEDKVFNEIRNEHFSNVFGF
LSQKARNLQAQYDRRRGMDIKQMKNFVSQELKGLKQEHRLLSLHIGACESIMKKKTKQDFQELIKTEHALLEGFN
IRESTSYIEEHIDRQVSPIESLRLMCLLSITENGLIPKDYRSLKTQYLQSYGPEHLLTFSNLRRAGLLTEQAPGD
TLTAVESKVSKLVTDKAAGKITDAFSSLAKRSNFRAISKKLNLIPRVDGEYDLKVPRDMAYVFSGAYVPLSCRII
EQVLERRSWQGLDEVVRLLNCSDFAFTDMTKEDKASSESLRLILVVFLGGCTFSEISALRFLGREKGYRFIFLTT
AVTNSARLMEAMSEVKA

4680/6881
# FIGURE 4314

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GACGGGACGCGACGCCAATCGCGACGAGGCTTCGCCCCGTGGCGCGGTTTGAAATTTTGCGGGGCTCAACGGCTC
GCGGAGCGGCTACGCGGAGTGACATCGCCGGTGTTTGCGGGTGGTTGTTGCTCTCGGGGCCGTGTGGAGTAGGTC
TGGACCTGGACTCACGGCTGCTTGGAGCGTCCGCCATGAGGAGAAGTGAGGTGCTGGCGGAGGAGTCCATAGTAT
GTCTGCAGAAAGCCCTAAATCACCTTCGGGAAATATGGGAGCTAATTGGGATTCCAGAGGACCAGCGGTTACAAA
GAACTGAGGTGGTAAAGAAGCATATCAAGGAACTCCTGGATATGATGATTGCTGAAGAGGAAAGCCTGAAGGAAA
GACTCATCAAAAGCATATCCGTCTGTCAGAAAGAGCTGAACACTCTGTGCAGCGAGTTACATGTTGAGCCATTTC
AGGTCCGTGGCAGCCCACAGGGTCTCTGGTGATCTGTCTGGGGCCTGAGACTTAGAAAGCAACGTTGACTTGGGC
CTGCAGATGGAAGGCTTCCTCGTAGGGATGGAGCTAGACGAAGAAGGAGAGACGACCATCTTGCAACTAGAAAAA
GATTTGCGCACCCAAGTGGAATTGATGCGAAAACAGAAAAAGGAGAGAAAACAGGAACTGAAGCTACTTCAAGAG
CAAGATCAAGAACTGTGCGAAATTCTTTGTATGCCCCACTATGATATTGACAGTGCCTCAGTGCCCAGCTTAGAA
GAGCTGAACCAGTTCAGGCAACATGTGACAACTTTGAGGGAAACAAAGACATTTCTTTGCGGGAGGCTAGAGGGC
TAGCCTCTGTGCTGCTGCTTTGCCGTGAGTGACACTGGCTTTCTATGCTGTAGCTGGAAATGCAGAAATCACAAA
ATGAAGCAGTGTGTGAGGGGCTGCGTACTCAAATCCGAGAGCTCTGG
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4681/6881
# FIGURE 4315

GGCACGAGGGGCGTTTCCTCCAAGGCTGCCCACCAGAAGGACCTGCCCGAGAGGGTAGAGGGCATAGGGTCAAGA
TCAAGATAAGGCAGCTCCAGCCCCTGGAAGGCCAGAGACTTGCCAGTGTCCCACTAGCGGGCTCTTCGCAAGAAT
CCCCCCGGGCCCGCCGCAGCCAGGCGGCGGCCGGCAGAGGGCGCTGCTCGGGCATGGCGGAGGAGCGGCCGGGGG
CCTGGTTCGGCTTCGGTTTCTGCGGCTTCGGGCAGGAGCTGGGCTCCGGACGCGGGCGCCAGGTGCACAGCCCCA
GTCCGCTGCGGGCGGGCGTCGACATCTGCCGCGTGAGCGCGAGCTGGAGCTACACCGCTTTCGTGACCCGTGAGC
ACTCCCCGCCCCGTCCCCACTTATTCCAGCCGCGCTCCCCAGTCGCCTCCCCGCACCGCTGTGGCCAGTCCAGTT
TGTCTCCCCCGTTCAGGCCGCCAGCCCCACATTCTGGGTTGGTCCCCAATTCGACCCCTTCCCAGGAACACCCCG
CTCCCCCCATCCCCGCCGCCTCCATTCTGGCCACCCTGCTCCAATCCGCCCCGCAGGTGGAGGCCGCTTGGAGCT
GTCGGGCTCAGCCAGCGGCGCGGCGGGCCGCTGCAAGGACGCGTGGGCCTCGGAGGGGCTCCTCGCGGTGCTGCG
CGCCGGGCCGGGGCCGGAGGCGTTACTGCAGGTCTGGGCGGCCGAATCGGCGCTGCGTGGGGAGCCATTGTGGGC
CCAGAATGTGGTGCCCGAGGCCGAAGGGGAAGACGATCCGGCCGGTGAGGCCCAGGCTGGGAGGCTACCCCTGCT
GCCCTGCGCCCGTGCCTACGTGAGCCCGCGGGCGCCCTTCTACCGGCCTCTGGCTCCGGAGCTGCGGGCACGCCA
GCTGGAGCTGGGCGCCGAGCACGCGTTGCTGCTGGACGCTGCTGGCCAGGTGTTCTCCTGGGGCGGGGGCAGGCA
TGGACAGCTGGGCCATGGGACCCTGGAGGCAGAGCTGGAGCCACGGCTGTTGGAGGCGTTGCAGGGCCTAGTC<u>AT
G</u>GCTGAGGTGGCCGCGGGGGGCTGGCATTCTGTGTGTGTGAGTGAGACTGGGGATATTTATATCTGGGGCTGGAA
TGAATCAGGGCAGCTGGCCCTGCCCACCAGGAACCTGGCAGAGGATGGAGAGACTGTCGCAAGGGAAGCCACAGA
ACTGAATGAAGATGGTTCTCAGGTGAAGAGAACGGGTGGGGCTGAGGATGGAGCCCCTGCCCCCTTCATAGCTGT
CCAGCCCTTCCCGGCATTACTGGATCTCCCCATGGGCTCAGATGCAGTCAAGGCCAGCTGTGGATCCCGGCACAC
AGCTGTGGTGACACGAACAGGGGAGCTCTACACCTGGGGCTGGGGTAAATATGGACAGCTGGGCCACGAGGACAC
CACCAGCTTGGATCGGCCTCGCCGTGTGGAATACTTTGTAGATAAGCAACTCCAAGTAAAGGCTGTCACCTGTGG
GCCGTGGAACACCTACGTGTATGCTGTGGAGAAAGGGAAGAGC<u><b>TGA</b></u>CATGTGTACGTATATGTATATGCAACACC
TGTGAGACCCCCATTCAGGTCAAGGAAAACCATTGCCTGCACCCCAAGGGCCCCATATTTGCCCCTCCCCATCAC
AGTCCTGCCCTTCACCCTCAAGCACGGTCCTAAACTTGTCTGCACTTTAGAAACACCTGGAGAGCATTGAAAACT
CTGCTGCCTAAGGTCAGCATCAATCAAAACAATGAAATCAATGAAACAATGAAACCAGAGCTTCTAGGTGTGTGG
CCTGGATAGTGGTAGATTCAAAGCTCCACCCACCTCATCCCAGGTACATTTGATGTGCAGCTGAGATTGGGGCAC
ATTCCAGGTCATCGTCTTCTGTCAGTCATTTCCCTGCTTTCGTTTGAATTTTACCATTCTTGTATGCAGCCTTAT
ACGACATAGTTGTGTTTGCTTTTGAGTGTTAGATAAATGGAATCCTGTGTATGTGCTTTTGTGTCGTTTTTGTCA
CTCAGCATTGTATAATCCATCCTTGTTGGGTCCTGGAGTTCATTTTTAATGCTATATGGTGTTCTGTTGTATGAA
TAATACCTCAAGTGATACAAAAAAAAAAAAAAAAA

4682/6881
# FIGURE 4316

MAEVAAGGWHSVCVSETGDIYIWGWNESGQLALPTRNLAEDGETVAREATELNEDGSQVKRTGGAEDGAPAPFIA
VQPFPALLDLPMGSDAVKASCGSRHTAVVTRTGELYTWGWGKYGQLGHEDTTSLDRPRRVEYFVDKQLQVKAVTC
GPWNTYVYAVEKGKS

4683/6881
# FIGURE 4317

CGCCCGCGGCCGAGGTGGACGGAGCCTCCCGGCTCGCTGCTCCCGCCGGCGGAGCGAGGCTGCCCTTTCTTCGCA
GCGTGATTTATTTTCTTCTTTTTTTCTGAACTCTTCTTCCAGGGAGAGGCTAGTGGTAACAGGCCGAGCTGGATG
G**ATG**GGGTATGGGGAGAGGGGCAGGACGTTCAGCCCTGGGATTCTGGCCGACCCTCGCCTTCCTTCTCTGCAGCTT
CCCCGCAGCCACCTCCCCGTGCAAGATCCTCAAGTGCAACTCTGAGTTCTGGAGCGCCACGTCGGGCAGCCACGC
CCCAGCCTCAGACGACACCCCCGAGTTCTGTGCAGCCTTGCGCAGCTACGCCCTGTGCACGCGGCGGACGGCCCG
CACCTGCCGGGGTGACCTGGCCTACCACTCGGCCGTCCATGGCATAGAGGACCTCATGAGCCAGCACAACTGCTC
CAAGGATGGCCCCACCTCGCAGCCACGCCTGCGCACGCTCCCACCGGCCGGAGACAGCCAGGAGCGCTCGGACAG
CCCCGAGATCTGCCATTACGAGAAGAGCTTTCACAAGCACTCGGCCACCCCCAACTACACGCACTGTGGCCTCTT
CGGGGACCCACACCTCAGGACTTTCACCGACCGCTTCCAGACTTGCAAGGTGCAGGGCGCCTGGCCGCTCATCGA
CAATAATTACCTGAACGTGCAGGTCACCAACACGCCTGTGCTGCCCGGCTCAGCGGCCACTGCCACCAGCAAGCT
CACCATCATCTTCAAGAACTTCCAGGAGTGTGTGGACCAGAAGGTGTACCAGGCTGAGATGGACGAGCTCCCGGC
CGCCTTCGTGGATGGCTCTAAGAACGGTGGGGACAAGCACGGGCCAACAGCCTGAAGATCACTGAGAAGGTGTC
AGGCCAGCACGTGGAGATCCAGGCCAAGTACATCGGCACCACCATCGTGGTGCGCCAGGTGGGCCGCTACCTGAC
CTTTGCCGTCCGCATGCCAGAGGAAGTGGTCAATGCTGTGGAGGACTGGGACAGCCAGGGTCTCTACCTCTGCCT
GCGGGGCTGCCCCCCTCAACCAGCAGATCGACTTCCAGGCCTTCCACACCAATGCTGAGGGCACCGGTGCCCGCAG
GCTGGCAGCCGCCAGCCCTGCACCCACAGCCCCCGAGACCTTCCCATACGAGACAGCCGTGGCCAAGTGCAAGGA
GAAGCTGCCGGTGGAGGACCTGTACTACCAGGCCTGCGTCTTCGACCTCCTCACCACGGGCGACGTGAACTTCAC
ACTGGCCGCCTACTACGCGTTGGAGGATGTCAAGATGCTCCACTCCAACAAAGACAAACTGCACCTGTATGAGAG
GACTCGGGACCTGCCAGGCAGGGCGGCTGCGGGGCTGCCCCTGGCCCCCCGGCCCCTCCTGGGCGCCCTGGTCCC
GCTCCTGGCCCTGCTCCCTGTGTTCTGC**TAG**ACGCGTAGATGTGGAGGGAGGCGCGGGCTCCGTCCTCTCGGCTT
CCCCATGTGTGGGCTGGGACCGCCCACGGGGTGCAGATCTCCTGGCGTGTCCACCATGGCCCCGCAGAACGCCAG
GGACCGCCTGCTGCCAAGGGCTCAGGCATGGACCCCTCCCCTTCTAGTGCACGTGACAAGGTTGTGGTGACTGGT
GCCGTGATGTTTGACAGTAGAGCTGTGTGAGAGGGAGAGCAGCTCCCCTCGCCCCGCCCCTGCAGTGTGAATGTG
TGAAACATCCCCTCAGGCTGAAGCCCCCCACCCCCACCAGAGACACACTGGGAACCGTCAGAGTCAGCTCCTTCC
CCCTCGCAATGCACTGAAAGGCCCGGCCGACTGCTGCTCGCTGATCCGTGGGGCCCCCTGTGCCCGCCACACGCA
CGCACACACTCTTACACGAGAGCACACTCGATCCCCCTAGGCCAGCGGGGACACCCCAGCCACACAGGGAGGCAT
CCTTGGGGCTTGGCCCCAGGCAGGGCAACCCCGGGGCGCTGCTTGGCACCTTAGCAGACTGCTGGAACCTTTTGG
CCAGTAGGTCGTGCCCGCCTGGTGCCTTCTGGCCTGTGGCCTCCCTGCCCATGTTCACCTGGCTGCTGTGGGTAC
CAGTGCAGGTCCCGGTTTTCAGGCACCTGCTCAGCTGCCCGTCTCTGGCCTGGGCCCCTGCCCCTTCCACCCTGT
GCTTAGAAAGTCGAAGTGCTTGGTTCTAAATGTCTAAACAGAGAAGAGATCCTTGACTTCTGTTCCTCTCCCTCC
TGCAGATGCAAGAGCTCCTGGGCAGGGGTGCCTGGGCCCCAGGGTGTGGCAGGAGACCCAGTGGATGGGGCCAGC
TGGCCTGCCCTGATCCTCTGCTTCCTCCTCACAACCCCAAGAGCCCCCAGCCCGGTCCATCCACGTCTGGAGTCT
GGGGAGAGGAGCAGGGTCTTAGGACTCTCAGCTCTGAGCATCCCTGGCAGGGTCTTCAACCTCTAATCTCTTCCC
TTAAGCCCTGTGGCCACACAGCCAGGAGAGACTTGCCGCTGGCTCCCGCCTCATTTCAGCCCAGGGTGCTCATCC
AGGGGCCCAGAACAGTCCCACCTGTGCTGCTATGCCCACAGCACAAAGCCAGGCTTCACTCCCAAAAGTGCAGCC
AGGCCCTGGAGGGTGATCCTGCCAGCAGCCCTACAGCTCCACACCCTACCCACCCATCGGCAGCCCCTCTGCTGT
TCCCCAGGGACCTCTCATACACTGGCCAGGAGGCTGCAGAACGTGTGTCTCCCCCTCCCTCCAAGAGGTCCTGCT
CCCTCTGCCAGAACCGTGTGTGGGCGGGTGGGAGGGCGCTCGGGGCCCGGCCCCTCCCTCTCCCTGCTGGTTTTA
GTTGGTCCCTATGTTGGAAGTAAAAAGTGAAGCACTTTATTTTGGTTGTGTTTGCTCACGTTCTGCTTGGAAGTG
GGGACCCCTCACTGCGTCCACGTGTCTGCGACCTGTGTGGAGTGTCACCGCGTGTACATACTGTAAATTATTTAT
TAATGGCTAAATGCAAGTAAAGTTTGGTTTTTTTGTT

4684/6881
# FIGURE 4318

MGMGRGAGRSALGFWPTLAFLLCSFPAATSPCKILKCNSEFWSATSGSHAPASDDTPEFCAALRSYALCTRRTAR
TCRGDLAYHSAVHGIEDLMSQHNCSKDGPTSQPRLRTLPPAGDSQERSDSPEICHYEKSFHKHSATPNYTHCGLF
GDPHLRTFTDRFQTCKVQGAWPLIDNNYLNVQVTNTPVLPGSAATATSKLTIIFKNFQECVDQKVYQAEMDELPA
AFVDGSKNGGDKHGANSLKITEKVSGQHVEIQAKYIGTTIVVRQVGRYLTFAVRMPEEVVNAVEDWDSQGLYLCL
RGCPLNQQIDFQAFHTNAEGTGARRLAAASPAPTAPETFPYETAVAKCKEKLPVEDLYYQACVFDLLTTGDVNFT
LAAYYALEDVKMLHSNKYKLHLYDRTRDLPGRAAAGLPLAPRPLLGALVPLLALLPVFC

4685/6881
# FIGURE 4319

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AGCCGGTGCGCCGCAGACTAGGGCGCCTCGGGCCAGGGAGCGCGGAGGAGCCATGGCCACCGCTAACGGGGCCGT
GGAAAACGGGCAGCCGGACAGGAAGCCGCCGGCCCTGCCGCGCCCCATCCGCAACCTGGAGGTCAAGTTCACCAA
GATATTTATCAACAATGAATGGCACGAATCCAAGAGTGGGAAAAAGTTTGCTACATGTAACCCTTCAACTCGGGA
GCAAATATGTGAAGTGGAAGAAGGAGATAAGCCCGACGTGGACAAGGCTGTGGAGGCTGCACAGGTTGCCTTCCA
GAGGGGCTCGCCATGGCGCCGGCTGGATGCCCTGAGTCGTGGGCGGCTGCTGCACCAGCTGGCTGACCTGGTGGA
GAGGGACCGCGCCACCTTGGCCGCCCTGGAGACGATGGATACAGGGAAGCCATTTCTTCATGCTTTTTTCATCGA
CCTGGAGGGCTGTATTAGAACCCTCAGATACTTTGCAGGGTGGGCAGACAAAATCCAGGGCAAGACCATCCCCAC
AGATGACAACGTCGTGTGCTTCACCAGGCATGAGCCCATTGGTGTCTGTGGGGCCATCACTCCATGGAACTTCCC
CCTGCTGATGCTGGTGTGGAAGCTGGCACCCGCCCTCTGCTGTGGGAACACCATGGTCCTGAAGCCTGCGGAGCA
GACACCTCTCACCGCCCTTTATCTCGGCTCTCTGATCAAAGAGGCCGGGTTCCCTCCAGGAGTGGTGAACATTGT
GCCAGGATTCGGGCCCACAGTGGGAGCAGCAATTTCTTCTCACCCTCAGATCAACAAGATCGCCTTCACCGGCTC
CACAGAGGTTGGAAAACTGGTTAAAGAAGCTGCGTCCCGGAGCAATCTGAAGCGGGTGACGCTGGAGCTGGGGGG
GAAGAACCCCTGCATCGTGTGTGCGGACGCTGACTTGGACTTGGCAGTGGAGTGTGCCCATCAGGGAGTGTTCTT
CAACCAAGGCCAGTGTTGCACGGCAGCCTCCAGGGTGTTCGTGGAGGAGCAGGTCTACTCTGAGTTTGTCAGGCG
GAGCGTGGAGTATGCCAAGAAACGGCCCGTGGGAGACCCCTTCGATGTCAAAACAGAACAGGGGCCTCAGATTGA
TCAAAAGCAGTTCGACAAAATCTTAGAGCTGATCGAGAGTGGGAAGAAGGAAGGGGCCAAGCTGGAATGCGGGGG
CTCAGCCATGGAAGACAAGGGGCTCTTCATCAAACCCACTGTCTTCTCAGAAGTCACAGACAACATGCGGATTGC
CAAAGAGGAGATTTTCGGGCCAGTGCAACCAATACTGAAGTTCAAAAGTATCGAAGAAGTGATAAAAAGAGCGAA
TAGCACCGACTATGGACTCACAGCAGCCGTGTTCACAAAAAATCTCGACAAAGCCCTGAAGTTGGCTTCTGCCTT
AGAGTCTGGAACGGTCTGGATCAACTGCTACAACGCCCTCTATGCACAGGCTCCATTGGTGGCTTTAAAAATGTC
AGGAAATGGCAGAGAACTAGGTGAATACGCTTTGGCCGAATACACAGAAGTGAAAACTGTCACCATCAAACTTGG
CGACAAGAACCCCTGAAGGAAAGGCGGGGCTCCTTCCTCAAACATCGGACGGCGGAATGTGGCAGATGAAATGTG
CTGGAGGAAAAAAATGACATTTCTGACCTTCCCGGGACACATTCTTCTGGAGGCTTTACATCTACTGGAGTTGAA
TGATTGCTGTTTTCCTCTCACTCTCCTGTTTATTCACCAGACTGGGGATGCCTATAGGTTGTCTGTGAAATCGCA
GTCCTGCCTGGGGAGGGAGCTGTTGGCCATTTCTGTGTTTCCCTTTAAACCAGATCCTGGAGACAGTGAGATACT
CAGGGCGTTGTTAACAGGGAGTGGTATTTGAAGTGTCCAGCAGTTGCTTGAAATGCTTTGCCGAATCTGACTCCA
GTAAGAATGTGGGAAAACCCCCTGTGTGTTCTGCAAGCAGGGCTCTTGCACCAGCGGTCTCCTCAGGGTGGACCT
GCTTACAGAGCAAGCCACGCCTCTTTCCGAGGTGAAGGTGGGACCATTCCTTGGGAAAGGATTCACAGTAAGGTT
TTTTGGTTTTTGTTTTTTGTTTTCTTGTTTTTAAAAAAAGGATTTCACAGTGAGAAAGTTTTGGTTAGTGCATAC
CGTGGAAGGGCGCCAGGGTCTTTGTGGATTGCATGTTGACATTGACCGTGAGATTCGGCTTCAAACCAATACTGC
CTTTGGAATATGACAGAATCAATAGCCCAGAGAGCTTAGTCAAAGACGATATCACGGTCTACCTTAACCAAGGCA
CTTTCTTAAGCAGAAAATATTGTTGAGGTTACCTTTGCTGCTAAAGATCCAATCTTCTAACGCCACAACAGCATA
GCAAATCCTAGGATAATTCACCTCCTCATTTGACAAATCAGAGCTGTAATTCGCTTTAACAAATTACGCATTTCT
ATCACGTTCACTAACAGCTTATGATAAGTCTGTGTAGTCTTCCTTTTCTCCAGTTCTGTTACCCAATTTAGATTA
GTAAAGCGTACACAACTGGAAAGACTGCTGTAATAACACAGCCTTGTTATTTTTAAGTCCTATTTTGATATTAAT
TTCTGATTAGTTAGTAAATAACACCTGGATTCTATGGAGGACCTCGGTCTTCATCCAAGTGGCCTGAGTATTTCA
CTGGCAGGTTGTGAATTTTTCTTTTCCTCTTTGGGGATCCAAATGATGATGTGCAATTTCATGTTTTAACTTGGG
AAACTGAAAGTGTTCCCATATAGCTTCAAAAACAAAAACAAATGTGTTATCCGACGGATACTTTTATGGTTACTA
ACTAGTACTTTCCTAATTGGGAAAGTAGTGCTTAAGTTTGCAAATTAAGTTGGGGAGGGCAATAATAAAATGAGG
GCCCGTAACAGAACCAGTGTGTGTATAACGAAACCATGTATAAAATGGGCCTATCACCCTTGTCAGAGATATAA
ATTACCACATTTGCCTTCCCTTCATCAGCTAACACTTATCACTTATACTACCAATAACTTGTTAAATCAGGATTT
GGCTTCATACACTGAATTTTCAGTATTTTATCTCAAGTAGATATAGACACTAACCTTGATAGTGATACGTTAGAG
GGTTCCTATTCTTCCATTGTACGATAATGTCTTTAATATGAAATGCTACATTATTTATAATTGGTAGAGTTATTG
TATCTTTTTATAGTTGTAAGTACACAGAGGTGGTATATTTAAACTTCTGTAATATACTGTATTTAGAAATGGAAA
TATATATAGTGTTAGGTTTCACTTCTTTTAAGGTTTACCCCTGTGGTGTGGTTTAAAAATCTATAGGCCTGGGAA
TTCCGATCCTAGCTGCAGATCGCATCCCACAATGCGAGAATGATAAAATAAAATTGGATATTTGAGA
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4686/6881
# FIGURE 4320

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GAATTCCGCGGGAGGCCACGGGCTTTCCACAGCGCGGGGGAACGGGAGGCTGCAGGATGGTCAAGCTGACGGCGG
AGCTGATCGAGCAGGCGGCGCAGTACACCAACGCGGTGCGCGACCGGGAGCTGGACCTCCGGGGGTATAAAATTC
CCGTCATTGAAAATCTAGGTGCTACGTTAGACCAGTTTGATGCTATTGATTTTTCTGACAATGAGATCAGGAAAC
TGGATGGTTTTCCTTTGTTGAGAAGACTGAAAACATTGTTAGTGAACAACAACAGAATATGCCGTATAGGTGAGG
GACTTGATCAGGCTCTGCCCTGTCTGACAGAACTCATTCTCACCAATAATAGTCTCGTGGAACTGGGTGATCTGG
ACCCTCTGGCATCTCTCAAATCGCTGACTTACCTAAGTATCCTAAGAAATCCGGTAACCAATAAGAAGCATTACA
GATTGTATGTGATTTATAAAGTTCCGCAAGTCAGAGTACTGGATTTCCAGAAAGTGAAACTAAAAGAGCGTCAGG
AAGCAGAGAAAATGTTCAAGGGCAAACGGGGTGCACAGCTTGCAAAGGATATTGCCAGGAGAAGCAAAACTTTTA
ATCCAGGTGCTGGTTTGCCAACTGACAAAAAGAGAGGTGGGCCATCTCCAGGGGATGTAGAAGCAATCAAGAATG
CCATAGCAAATGCTTCAACTCTGGCTGAAGTGGAGAGGCTGAAGGGGTTGCTGCAGTCTGGTCAGATCCCTGGCA
GAGAACGCAGATCAGGGCCCACTGATGATGGTGAAGAAGAGATGGAAGAAGACACAGTCACAAACGGGTCCTGAG
CAGTGAGGCAGATGTATAATAATAGGCCCTCTTGGAACAAGTCTTGCTTTTCGAACATGGTATAATAGCCTTGTT
TGTGTTAGCAAAGTGGAATCTATCAGCATTGTTGAAATGCTTAAGACTGCTGCTGATAATTTTGTAATATAAGTT
TTGAAATCTAAATGTCAATTTTCTACAAATTATAAAAATAAACTCCACTCTCTATGCTAAAAAAAAAAAAAAGGA
ATTC
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4687/6881
# FIGURE 4321

MVKLTAELIEQAAQYTNAVRDRELDLRGYKIPVIENLGATLDQFDAIDFSDNEIRKLDGFPLLRRLKTLLVNNNR
ICRIGEGLDQALPCLTELILTNNSLVELGDLDPLASLKSLTYLSILRNPVTNKKHYRLYVIYKVPQVRVLDFQKV
KLKERQEAEKMFKGKRGAQLAKDIARRSKTFNPGAGLPTDKKRGGPSPGDVEAIKNAIANASTLAEVERLKGLLQ
SGQIPGRERRSGPTDDGEEEMEEDIVTNGS

4688/6881
# FIGURE 4322

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GACACTATCCGTGCGGCCAGGCGGAGACCCGGAGGACCGAAGCTTCCGGACGACGAGGAACCGCCCAACATGGCC
TCGGAGAGTGGGAAGCTTTGGGGTGGCCGGTTTGTGGGTGCAGTGGACCCCATCATGGAGAAGTTCAACGCGTCC
ATTGCCTACGACCGGCACCTTTGGGAGGTGGATGTTCAAGGCAGCAAAGCCTACAGCAGGGGCCTGGAGAAGGCA
GGGCTCCTCACCAAGGCCGAGATGGACCAGATACTCCATGGCCTAGACAAGGTGGCTGAGGAGTGGGCCCAGGGC
ACCTTCAAACTGAACTCCAATGATGAGGACATCCACACAGCCAATGAGCGCCGCCTGAAGGAGCTCATTGGTGCA
ACGGCAGGGAAGCTGCACACGGGACGGAGCCGGAATGACCAGGTGGTCACAGACCTCAGGCTGTGGATGCGGCAG
ACCTGCTCCACGCTCTCGGGCCTCCTCTGGGAGCTCATTAGGACCATGGTGGATCGGGCAGAGGCGGAACGTGAT
GTTCTCTTCCCGGGGTACACCCATTTGCAGAGGGCCCAGCCCATCCGCTGGAGCCACTGGATTCTGAGCCACGCC
GTGGCACTGACCCGAGACTCTGAGCGGCTGCTGGAGGTGCGGAAGCGGATCAATGTCCTGCCCCTGGGGAGGTGG
GGCCATTGCAGGCAATCCCCTGGGTGTGGACCGAGAGCTGCTCCGAGCAGAACTCAACTTTGGGGCCATCACTCT
CAACAGCATGGATGCCACTAGTGAGCGGGACTTTGTGGCCGAGTTCCTGTTCTGGGCTTCGCTGTGCATGACCCA
TCTCAGCAGGATGGCCGAGGACCTCATCCTCTACTGCACCAAGGAATTCAGCTTCGTGCAGCTCTCAGATGCCTA
CAGCACGGGAAGCAGCCTGATGCCCCAGAAGAAAAACCCCGACAGTTTGGAGCTGATCCGGAGCAAGGCTGGGCG
TGTGTTTGGGCGGTGTGCCGGGCTCCTGATGACCCTCAAGGGACTTCCCAGCACCTACAACAAAGACTTACAGGA
GGACAAGGAAGCTGTGTTTGAAGTGTCAGACACTATGAGTGCCGTGCTCCAGGTGGCCACTGGCGTCATCTCTAC
GCTGCAGATTCACCAAGAGAACATGGGACAGGCTCTCAGCCCCGACATGCTGGCCACTGACCTTGCCTATTACCT
GGTCCGCAAAGGGATGCCATTCCGCCAGGCCCACGAGGCCTCCGGGAAAGCTGTGTTCATGGCCGAGACCAAGGG
GGTCGCCCTCAACCAGCTGTCACTGCAGGAGCTGCAGACCATCAGCCCCCTGTTCTCGGGCGACGTGATCTGCGT
GTGGGACTACGGGCACAGTGTGGAGCAGTATGGTGCCCTGGGCGGCACTGCGCGCTCCAGCGTCGACTGGCAGAT
CCGCCAGGTGCGGGCGCTACTGCAGGCACAGCAGGCCTAGGTCCTCCCACACCTGCCCCCTAATAAAGTGGGCGC
GAG
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4689/6881
## FIGURE 4323A

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GCACCAGAAGCCAGCAGTGGGGTTGCACACGCGCCTCTTCACGAGGTGGAAACAAGATGGAGGATTCGGCCTCGG
CCTCGCTGTCTTCTGCAGCCGCTACTGGAACCTCCACCTCGACTCCAGCGGCCCCGACAGCACGGAAGCAGCTGG
ATAAAGAACAGGTTAGAAAGGCAGTGGACGCTCTCTTGACGCATTGCAAGTCCAGGAAAAACAATTATGGGTTGC
TTTTGAATGAGAATGAAAGTTTATTTTTAATGGTGGTATTATGGAAAATTCCAAGTAAAGAACTGAGGGTCAGAT
TGACCTTGCCTCATAGTATTCGATCAGATTCAGAAGATATCTGTTTATTTACGAAGGATGAACCCAATTCAACTC
CTGAAAAGACAGAACAGTTTTATAGAAAGCTTTTAAACAAGCATGGAATTAAAACCGTTTCTCAGATTATCTCCC
TCCAAACTCTAAAGAAGGAATATAAATCCTATGAAGCCAAGCTCCGCCTTCTGAGCAGTTTTGATTTCTTCCTTA
CTGATGCCAGAATTAGGCGGCTCTTACCCTCACTCATTGGGAGACATTTCTATCAAAGAAAGAAAGTTCCAGTAT
CTGTAAACCTTCTGTCCAAGAATTTATCAAGAGAGATCAATGACTGTATAGGTGGAACAGTCTTAAACATTTCTA
AAAGTGGTTCTTGCAGTGCTATACGTATTGGTCACGTTGGAATGCAAATTGAGCACATCATTGAAAACATTGTTG
CTGTCACCAAAGGACTTTCAGAAAAATTGCCAGAGAAGTGGGAGAGCGTGAAACTCCTGTTTGTGAAAACTGAGA
AATCGGCTGCACTTCCCATCTTTTCCTCGTTTGTCAGCAATTGGGATGAAGCCACCAAAAGATCTTTGCTTAATA
AGAAGAAAAAGAGGCAAGGAGAAAACGAAGAGAAAGAAATTTTGAAAAACAAAAGGAGAGGAAGAAGAAGAGGC
AGCAGGCTAGGAAGACTGCATCAGTTCTTAGTAAAGATGATGTGGCACCTGAAAGTGGTGATACTACAGTGAAGA
AACCTGAATCAAAGAAGGAACAGACCCCAGAGCATGGGAAGAAAAAACGTGGCAGAGGAAAAGCCCAAGTTAAAG
CAACAAATGAATCCGAAGACGAAATCCCACAGCTGGTACCAATAGGAAAGAAGACTCCAGCTAATGAAAAAGTAG
AGATTCAAAAACATGCCACAGGAAAGAAGTCTCCAGCAAAGAGTCCTAATCCCAGCACACCTCGTGGGAAGAAAA
GAAAGGCTTTGCCAGCATCTGAGACCCCAAAAGCTGCAGAGTCTGAGACCCCAGGGAAAAGCCCAGAGAAGAAGC
CAAAAATCAAAGAAGAGGCAGTGAAGGAAAAAAGTCCTTCGCTGGGGAAAAAAGATGCGAGACAGACTCCAAAAA
AGCCAGAGGCCAAGTTTTTCACCACTCCTAGTAAATCTGTGAGAAAAGCTTCCCACACCCCCAAAAAATGGCCCA
AAAAACCCAAAGTACCCCAGTCGACCTAAAGTCAGTGATTCAACTGGAAGGAAACCTCAATGCTGCCTCCAGAGC
TTTTTGGAAATACTCAGATCCTGGCCGCCTTTGTAACCTTCTCTAAACGTCAGGCCTGGACTTAAAAGATTTTTT
AAAACCTCCATAAGTAGTCCAGGGGCGGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCGAGGCAGGCGG
ATCACAAGGTCAACGAGATCGAGACCATCCTGGCCAACATGGTGAAACCCTGTCTGTACCAAAAATACAAAAATT
AATTGGGCATGGTGGTGGACACCTGTAATCCCAGCTACTAGGGAGGCTGAGGCAGGAGAATTGCTTGAACCTGGG
AGGCGGAGGTTGCAGTGAGCCACTGCACTCCAGCCTGATGACAGAGCAAGACTCAGTCTCAAAAATAAATAAAAA
TAATAAAACCTCCATAAGTAATCCTGACATATGTTCCTGGGTATAATCTGTTTCTAAATTGTCCTTCTGTGTATT
TGCTAATGTAATAGAGGGAAAAATAGAGTGCTTCTCTGTGGTTGTTCAGCACTTTAGGTAGCCAAGGTGAGAGGA
TTGCTTGAGGCCAGGAGTTTGAGACTAGCCTGGGCAACTTGGTAAAACCCCATCTCTACAAAAGAAAAAAAAAAA
TTAGTGTGGCATGGTGGCATGCATCTGTGCTCCCAGCTCCTCACGAGGCTGAGGTGGAAGGATCAAGTGAGCGCA
AGAGGTTGAGGCTCCAGTGAGCCACGATCACCCCACTGTGCTGTAGCCTGGGTGACAGTGTGAGATTCTGTCTCA
GAAAAAACAAAGTATAACATTGCTTTGCTTCTGAGTATACTGTTGGCTTTCCAAATCAGTGGGTCTGACTTGAGG
TCTGTGATGTGACCCTTTTCCTCACCTGCTCAACCATTATTCACATGGACTCCATCATATTCATTTGTAGTCATT
CCCAGAGTGGCCCAGTGAGGGTCTCGCTGTATGAGAGTCGGCTACGGAATTTAGGAGAAACAGAAGTTTCTTGGC
TTTCATGCTGAGCTTGTTGGTCTAAGCTTATGAGTCACTGGATTAGCATCCATATGGGAAGGGAAATTAACATGG
AGTCATTTATACAGGGACTAAATTGAATCCTACCTACCGGAGGCAAGAACATGATTTATCTTCCATAAGCCTTAT
CCTCTTCCTCCTTATTCCTCAGTCCATATGGATTTGCTTATGTATGACAACTCCAAGGAATCTTGGAAGAGTAGA
TTGCTAACGTTTCCACAATTGTCAAGTATATTCTGAGGCAGTAAACACCTTTTTAGGTACGTGGCCTTTCACTGG
TTGTGAATTGGTATGCATCCGTAGTAGTAAGTTCACAGATTCACTGCAGTGCAGGAATGTTCTTGCATGCCAAAG
ACTCAACTGCTTTCAAAGATAATGTGGGTGCTAGATGCAGTGGCTTACATCTGTAACCCTGTTAGGGTGACCAGA
CCCAACACCAGGTCGTGGGGGTGACAAAGTCCAGTGGAGTCAAAGGATTGAGAAAAAGACAGTTTGAGAGAGAAG
TAGGACCAGCAGACCATCGGGATGGTGGAGGCTGTGAAGGCCGTGAGCTCTGGGAGCCCACACTATTTATTGGTA
ATCCAACAAAGAAACAGATGGTGAGAATGTGAAGGTCAGAAGGGCACCTTGCATTAAGCACATGATTTACAGCTG
TGATGGTTTAGCATTTGCTCTGCTACTTGAGATGATGGAGAGCAGGTTCTTTTAACTCAAGTTACAGTCGATCCT
GGGAGAGCAAGGAGCCAGCAAGTCTAGACATTCCAGAGCCACAGGCCCTGGATTTTATCCAAGCCACGAGGGATT
TTATGCCCTGGGCTTAGATTATGGTGCGTCAGGGCAGCCTTCCACCCTTTAGCACAGAGCTTGGTGTTCCAAAGA
CCACAAGGGGTTTTAGACCCTTGACCCTGGACATATTCCAAGACTCTTTTACATTATGTCAGAATGCAAGCCCTG
CCTCAGCTTCTCCCAACACTCAGCTTTTCGCAACATAATCCCAGCACTTTGGAACGCTGGGTGGATTGCTTGAAC
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4690/6881
## FIGURE 4323B

CCAGGAGTTCGAGACCATCCTGGGCAATATGGCAAAACCCCATCTTTACCAAAAATAAGCTGGGTGTGGTGGAAC
ATGCCTGTGGTCCCAGCTTCTTGGGAGGCTGAGGTGGGAGGATTGCTTGAACCCGGGAGGTAGAGGCTGCAATGG
GCCATGATCACGATCCTGCACTCCAGCCTGGGCAACAGAGAGAGACAGTCCCTGGCCCACTGCCCCCTTCCCTGG
CCCAGTCTCAAAAAAAATGAGGCTGGGCGTGGTGGCTCACATCTGTAATCCCAGCCAAGGCTGGCAGATCACTTG
AGGCCAGGAGTTCTGAGACCAGCCTGGCTTACATGGTGAAACCCCATCTCTACTAAAAATACAAAAACTAGCCAG
GCATGGTGGGAGGCACCTGTAATCCCAGCTACTTGGGAGGCTGAAGCAGGAGAATCACTTTAACCCGGGAGGTGG
AGGTTGCAGTGAGCTGAGATCACACCACTGCACTCCAGCCTGGGCGGCAGAGCAAAACTGAAAAAAAGAGAAAAA
AAAAAA

4691/6881
# FIGURE 4324

MEDSASASLSSAAATGTSTSTPAAPTARKQLDKEQVRKAVDALLTHCKSRKNNYGLLLNENESLFLMVVLWKIPS
KELRVRLTLPHSIRSDSEDICLFTKDEPNSTPEKTEQFYRKLLNKHGIKTVSQIISLQTLKKEYKSYEAKLRLLS
SFDFFLTDARIRRLLPSLIGRHFYQRKKVPVSVNLLSKNLSREINDCIGGTVLNISKSGSCSAIRIGHVGMQIEH
IIENIVAVTKGLSEKLPEKWESVKLLFVKTEKSAALPIFSSFVSNWDEATKRSLLNKKKKGGKEKTKRKKF

4692/6881
# FIGURE 4325

CCAGCCACTTCCGCTGGTCGGCGCTGGAGGTGTCCGTGGGCTTGTACACGTCCCTGTGCCAGTACTTCAGCGAGG
AGGATGTGGTGTGGCGGACAGAGGGGCTGCTGCCCCTGGAGGAGACCTCGCCCCGCCAGGCCGTCTGCCTCACCC
GCCACCTCACCGCCTTCGGCGCCAGCCTCTTCATGCCCCCAAGCCATGAGCCGACAGCGGATGTAAACTACATCG
TCATGCTGACATGTGCTGTGTGCCTGGTGACCTACATGGTCATGGCCGCCATCCTGCACAAGCTGGACCAGTTGG
ATGCCAGCCGGGGCTGCGCCATCCCCTTCTGTGGGCAGCGGGGCCGCTTCAAGTACGAGATCCTCGTCAAGACAG
GCTGGGGCCGGGGCTCAGGTACCACGGCCCACGTGGGCATCATGCTGTATGGGGTGGACAGCCGGAGCGGCCACC
GGCACCTGGACGGCGACAGAGCCTTCCACCGCAACAGTCTGGACATCTTCCAGATCGCCACCCCGCACAGCCTGG
GTAGCGTGTGGAAGATCCGAGTGTGGCACGACAAAGGGCTCAGCCCTGCCTGGTTCCTGCAGCACATCATCGTCA
GGGACCTGCAGACGGCACGCAGCACCTTCTTCCTGGTC

# FIGURE 4326

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CTGGGGCTGTGACCGTGGGGTCGAAGCGCGCGTGCGCGGCGGCGGCTGGCGGCGGCGGTGGGGCGGGGCCTGGGC
TGTCAGCCGGCCTAGGAGGAGGAAGGAGCCTGCGGCGTGCAGTGTGAGGGGCGGGACCCGGCTGCCGGCGGTGGG
TCTAGCTGGGGGAGGTCGGGCCATGCTGGTGGGCCAGGGCGCGGGGCCGCTGGGGCCCGCGGTGGTCACCGCCGC
GGTGGTGCTGCTGCTGAGCGGCGTGGGGCCGGCGCACGGCTCGGAGGACATCGTGGTGGGCTGCGGTGGCTTCGT
CAAGTCGGACGTGGAGATCAACTACTCTCTCATCGAGATAAAGCTGTACACCAAGCATGGGACTTTGAAATACCA
GACAGACTGTGCCCCTAATAATGGTTACTTTATGATCCCTTTGTATGATAAGGGGGATTTCATTCTGAAGATTGA
GCCTCCCCTAGGGTGGAGTTTTGAGCCGACGACCGTGGAGCTCCATGTGGATGGAGTCAGTGACATCTGCACAAA
GGGTGGGGACATCAACTTTGTCTTCACTGGGTTCTCTGTGAATGGCAAGGTCCTCAGCAAAGGGCAGCCCCTGGG
TCCTGCGGGAGTTCAGGTGTCTCTGAGAAACACTGGGACCGAAGCAAAGATCCAGTCCACAGTTACACAGCCTGG
CGGAAAGTTTGCATTTTTTAAAGTTCTGCCTGGAGATTATGAAATCCTCGCAACTCATCCAACCTGGGCGTTGAA
AGAGGCAAGCACCACAGTGCGTGTAACCAACTCCAATGCCAATGCGGCCAGTCCCCTCATAGTTGCTGGCTACAA
TGTGTCTGGCTCTGTCCGAAGTGATGGGGAGCCCATGAAAGGCGTGAAGTTTCTTCTCTTTTCTTCTTTAGTAAC
TAAAGAGGATGTCCTGGGCTGCAATGTCTCACCAGTGCCTGGGTTCCAGCCCCAAGACGAGAGTCTGGTGTATTT
GTGCTACACGGTCTCCAGAGAAGATGGCTCGTTCTCTTTCTATTCCTTGCCAAGTGGGGGCTACACTGTGATTCC
GTTCTATCGAGGGGAGAGGATTACCTTTGATGTGGCGCCTTCCAGACTTGACTTCACAGTGGAGCATGACAGCTT
GAAAATCGAGCCCGTGTTCCACGTCATGGGATTCTCCGTCACCGGGAGGGTCTTGAACGGACCCGAAGGAGATGG
TGTTCCAGAAGCAGTAGTCACCCTGAATAACCAAATCAAAGTTAAAACAAAAGCTGATGGCTCATTCCGCCTTGA
GAACATAACCACAGGGACATACACCATCCATGCTCAGAAAGAGCACCTCTACTTTGAAACGGTCACCATCAAAAT
TGCACCAAACACACCTCAGCTGGCTGACATTGTTGCAACAGGGTTCAGTGTCTGTGGTCAGATATCAATCATTCG
CTTCCCCGACACCGTCAAGCAGATGAATAAATACAAAGTTGTCCTGTCATCTCAAGACAAGGACAAGTCTTTGGT
CACCGTGGAGACAGATGCTCATGGATCATTTTGTTTTAAAGCAAACCCAGGGACTTACAAAGTGCAGGTGATGGT
TCCTGAGGCAGAAACCAGAGCAGGGCTGACGTTGAAACCCCAGACATTTCCTCTTACTGTGACCGACAGGCCTGT
GATGGATGTGGCCTTTGTACAGTTCTTGGCATCAGTTTCTGGGAAAGTCTCTTGTTTGGCACCTGTGGTGACTT
GCTGGTGACTCTACAGTCCCTGAGCCGCCAGGGTGAGAAGCGGAGCCTCCAGCTCTCCGGCAAGGTCAACGCCAT
GACTTTCACCTTTGACAACGTGCTCCCTGGAAAATACAAAATAAGCATCATGCATGAGGATTGGTGCTGGAAGAA
CAAGAGCCTGGAGGTGGAAGTGCTGGAGGATGACGTGTCTGCAGTTGAGTTCAGGCAGACGGGCTACATGCTGAG
ATGTTCCCTGTCTCACGCCATCACTCTGGAATTTTATCAGGATGGAAATGGGCGTGAGAATGTGGGGATTTATAA
CCTCTCCAAAGGAGTCAACCGATTCTGCCTGTCCAAGCCTGGTGTGTACAAAGTGACCCCTCGCTCCTGCCACCG
GTTTGAGCAAGCGTTCTACACCTATGACACGTCTTCACCTAGTATCTTGACATTGACAGCCATTCGCCACCATGT
CCTTGGAACTATCACCACCGACAAAATGATGGATGTCACTGTGACTATCAAGTCTTCCATCGACAGTGAACCCGC
CTTGGTCTTAGGCCCTCTGAAGTCTGTGCAGGAGCTGCGGAGGGAGCAGCAGCTGGCTGAGATCGAGGCCCGCAG
GCAGGAGAGGGAGAAAAACGGCAAAGAGGAAGGCGAAGAAAGAATGACCAAGCCTCCCGTGCAGGAGATGGTAGA
TGAGTTACAAGGCCCCTTCTCGTATGATTTCTCTTACTGGGCGCGGTCTGGAGAGAAAATCACTGTTACACCGTC
ATCTAAAGAGCTGCTCTTTTATCCCCCTTCAATGGAAGCCGTTGTCAGTGGAGAAAGCTGCCCAGGGAAGCTGAT
CGAGATCCACGGGAAGGCAGGCCTGTTTTTAGAAGGCCAGATCCACCCCGAGTTGGAAGGAGTCGAGATTGTCAT
CAGTGAAAAGGGGGCAAGTTCACCGCTGATCACAGTCTTTACTGATGACAAAGGTGCCTACAGTGTTGGCCCCCT
GCACAGTGACCTGGAGTACACGGTGACCTCACAGAAGGAGGGCTATGTTCTGACTGCGGTGGAAGGAACCATCGG
AGACTTCAAGGCCTATGCCCTGGCAGGCGTAAGCTTTGAGATAAAAGCTGAGGATGACCAGCCCCTCCCGGGAGT
CCTCTTATCCCTGAGCGGTGGCCTGTTTCGTTCCAACCTCTTGACCCAGGACAACGGAATTCTGACATTCTCAAA
CCTGGTGACGTGTTCTGCAATTTACCACCTGCCTGTCTTCCCTGAGAGAGAGCCAGGATGCAGCATGCGAGACTT
ACGTGTTGCTTGACAACGTGAGAAGAGAAGGCCAATGTGGAGTGGTTTCAGTTTCT
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4694/6881
# FIGURE 4327

AGCCGCCTCTGCCGCCGCCGCCGCGTTGGCCTCGCCGCCCCTGCTCGGACACCATGCCACAAGGAGAGTGATCTC
TTCCCCTGTTTTCACAATGGAGGACTCCGGAAAGACTTTCAGCTCCGAGGAGGAAGAAGCTAACTATTGGAAAGA
TCTGGCGATGACCTACAAACAGAGGGCAGAAAATACGCAAGAGGAACTCCGAGAATTCCAGGAGGGAAGCCGAGA
ATATGAAGCTGAATTGGAGACGCAGCTGCAACAAATTGAAACCAGGAACAGAGACCTCCTGTCCGAAAATAACCG
CCTTCGCATGGAGCTGGAAACCATCAAGGAGAAGTTTGAAGTGCAGCACTCTGAAGGCTACCGGCAGATCTCAGC
CTTGGAGGATGACCTCGCGCAGACCAAAGCCATTAAAGACCAATTGCAGAAATACATCAGAGAGCTGGAGCAAGC
AAATGACGACCTGGAAAGAGCCAAGCGCGCCACGATCATGTCTCTCGAAGACTTTGAGCAGCGCTTGAATCAGGC
CATCGAAAGAAATGCCTTCCTGGAAAGTGAACTTGATGAAAAAGAGAATCTCCTGGAATCTGTTCAGAGACTGAA
GGATGAAGCCAGAGATTTGCGGCAGGAACTGGCCGTGCAGCAGAAGCAGGAGAAACCCAGGACCCCCATGCCCAG
CTCAGTGGAAGCTGAGAGGACAGACACAGCTGTGCAGGCCACGGGCTCCGTGCCGTCCACGCCCATTGCTCACCG
AGGACCCAGCTCAAGTTTAAACACACCTGGGAGCTTCAGACGTGGCCTGGACGACTCCACCGGGGGGACCCCCCT
CACACCTGCGGCCCGGATATCAGCCCTCAACATTGTGGGAGACCTACTGCGGAAAGTCGGGGCACTGGAGTCCAA
ACTCGCTTCCTGCCGGAACCTCGTGTACGATCAGTCCCCAAACCGAACAGGTGGCCCAGCCTCTGGGCGGAGCAG
CAAGAACAGAGATGGCGGGGAGAGACGGCCAAGCAGCACCAGCGTGCCTTTGGGTGATAAGGGGTTGGACACGAG
TTGCCGCTGGTTGTCCAAATCAACAACCAGGTCGTCCAGCTCCTGC**TGA**AGCCTGTTCTTGGTCTTTTCCAGTTT
ATCATACGCGGCCGCCTTCTCCTCGTACTGCTGGGTGAGGTTCTCGATCTCCTTCTGGAACCTCTTCTTCCCCTC
TTCCAGAGCTTCCACGGTGCTGGCAAAGTCCTGCAGCTTCTTCTTCGAGTCGGAGAGCTACAAGGACAGCGTCCA
GGGTAGGGTGAGAGGGGGACCATGAATGGCCCCTGTCCCTGGCCCCACAGACTCTGAGAAGCGAAGACCATGTCT
CCTCGTTGGAGAAACCCAATAGCAGGGGAAGCTGGGGGGTCAAGCACCATCGCACCAACACTCCACCGCGATCTG
CCTGCGGGGGATCTCAGCGCAGAGAAGTTGAGAGGACCCATGAAGGAAGCAAGGACACGGGGCAGGCACCTGGAT
GTTGAGAGTGGAGATGTGGCGCTCCAGGTTCTGCTTGGCCTCCATCTCCTCGTCCAGCTGGTCTTGCAGGCTGTT
CCGCTCCTCCTCCAGCTGGCGCAGCTTCGTAGACACGTTGAGCTTCTGCCGGGTTTCTTCTTGAAGCAGCTCCTG
CAAAAGGGATGCAAAGAGGTCCCAGGGACCTGCCCCGAGGAAGGCCACCCCCCAGGTCCCCTGGATGATGTGGCA
GGACACTCACCTGGGTGTCCTGGAGCTGGGAACTGAGGGACGCCACGTCCTTGGCCAGCTTAATGGCCTTCCCCT
CGGCCTCGTTAAGCATCCCTGTGACGCTCTCAACTTCATTCTAAGGGTGCCAAGAGACTGGTTAGTCAAAGCCTC
TAGAAGGGGATCCTCGTTGAAAGGAGCCCTTTTTACTCAAAACACATGGGCTAGTACTTGAGGTGTTCACTGATT
GAGAAAATACCCGTGAGGTATGGGACTCTGAAAAAAAAAAAAAAAAA

4695/6881
## FIGURE 4328

MEDSGKTFSSEEEEANYWKDLAMTYKQRAENTQEELREFQEGSREYEAELETQLQQIETRNRDLLSENNRLRMEL
ETIKEKFEVQHSEGYRQISALEDDLAQTKAIKDQLQKYIRELEQANDDLERAKRATIMSLEDFEQRLNQAIERNA
FLESELDEKENLLESVQRLKDEARDLRQELAVQQKQEKPRTPMPSSVEAERTDTAVQATGSVPSTPIAHRGPSSS
LNTPGSFRRGLDDSTGGTPLTPAARISALNIVGDLLRKVGALESKLASCRNLVYDQSPNRTGGPASGRSSKNRDG
GERRPSSTSVPLGDKGLDTSCRWLSKSTTRSSSSC

4696/6881
# FIGURE 4329

GGCTGGGGAAACAGAAACTCGCAGAAGTTAAAAAAATGTGCTTGAGGTGCCACTGGAGAATAACAATCATAGCCA
GGATCTGAAGCCTGTCAGTTTCCTCAGCCGCAAATTCTTCCATGTGGGGCGACCTCACAGAGACGGGATGTATGG
GACGGCGGAGTGCAAAGAAAGATCAGCTGGACATCATCTCCATGGCGGAGACAACCATGATGCCAGAGGAGATTG
AGCTGGAGATGGCAAAAATTCAGCGTCTCCGGGAAGTCTTGGTCCGCCGGGAGTCTGAGCTCAGGTTCATGATGG
ATGACATCCAGCTCTGCAAGGACATCATGGACTTGAAGCAGGAGCTGCAGAACTTGGTCGCCATCCCAGAAAAAG
AAAAAACCAAACTGCAGAAGCAGAGAGAGGATGAGCTAATCCAGAAGATCCACAAACTGGTGCAGAAGAGAGACT
TCCTGGTGGACGATGCGGAGGTCGAGCGGTTAAGGGAGCAAGAAGAAGACAAGGAAATGGCTGATTTCCTGAGAA
TCAAGTTAAAACCTCTAGACAAAGTAACCAAATCTCCAGCCAGCTCCCGGGCAGAGAAGAAAGCAGAGCCCCCAC
CTAGCAAGCCCACGGTGGCCAAGACGGGGCTGGCACTGATCAAGGATTGTTGCGGGGCCACCCAGTGCAACATCA
TGTAGCCCCCACGTGGGGTGCCCTGGGCCATGGGGACCCCCCCCCACCCTCTTGTCTTTATAGCCCCCATTTCAC
CGGGGCCCAAGAGCTCTCCAAGGCAGAAGGGGTTGAAGGCAAGCCCGTGACTGTCACCAGAGGCCATGGGCACGG
CAGGCGGGCCTGGCCACCCTGTACAGAGTGTAGCAGTAGGGAGTCTCTCACCGTCGCATGGTCCTCCCCAGAGCA
TGCCGAACCCAGGAGTCTGTCTCACTGTTTATCCAAACACCAGGAAAGGTCCTCCCTCAAAAAAGCATATCTCCA
CTTCTCTCTAGCTGTATCTAACCCACCGTGTGAATGAACTGGGAGAGGGGCATGCTCCCCAGCTGTGTGTAGTCG
TGACTTCTCAACAATCTAGCACC**ATGT**CGGACACGTTCCCCATCCACCCTCCTAGCTCTGCTCTCAGAGCTAGGC
ACATGGGCACAGGTCCCCTCCCGTCTGTCCTCTCCCAGCAACTGTGCCCTGGAGGGCTCCACATGGCCCCCGTGT
CTCTCGGGCACCACCCATATAGCAGTCCCAGAGGGCCCATCTGTAAAGATCGAGCTTGTGTGTGGTGTCGTGGTC
ACATCTCCCGCTTCCCCCCATCCTGTGTCTGGGCACAGTTCACATCAGGACAGCGTCCATTGTGCTCTCAGTCTG
CCTCAGGTGTGTGCCTGGAGGGGGCCTGGACTGGCATGGATCCAGTGTGCAGAAGAGCCAGCAGGGAACCGGAAG
CTCTGATGTCAAGGCCAGAGCAGTTGAGAATGGGACCCAGAGTAGATGCTGACCTGGGCACTCCACCATTCCGGG
GCCACCACAGAGATGCCAGCAGGATGCCACTTTGCCAGCCCGACACACGGACCTTTGTAAAGAACAGCAACAGGC
AGGAGAGGCAGCGTGTGACCAGATTGTGTCCCGTCATTGGGTGGCATATGTTAACTAGCTGCCAAACAACTTCAA
CCCGTGTAATTCATGTACATTTGCAACAGCCAGCCCGGTACAGCCTGTGTGACTTCTCTGTATGTGTGTGTGTGT
CG**TGA**CCAGCCTAAGTAGTTAGCATAACTCAAGATGCTGATGTGCAGTCACCCATCAGAGAAAATAAAAATGGAA
ACCACGTTCACAGCATTTTAAAAGTTTTTACTTTTTTTCTTGATTATGGAAGTAATCCATGTACATAGTAAATCA
TTTTAAAAGTACAAAAAGTATGAAGAAGTTTGTCTT

4697/6881
# FIGURE 4330

MSDTFPIHPPSSALRARHMGTGPLPSVLSQQLCPGGLHMAPVSLGHHPYSSPRGPICKDRACVWCRGHISRFPPS
CVWAQFTSGQRPLCSQSASGVCLEGAWTGMDPVCRRASREPEALMSRPEQLRMGPRVDADLGTPPFRGHHRDASR
MPLCQPDTRTFVKNSNRQERQRVTRLCPVIGWHMLTSCQTTSTRVIHVHLQQPARYSLCDFSVCVCVS

4698/6881
## FIGURE 4331

GGCAG<u>ATG</u>TACAGAACTGAAATTCGAATGGCGAGGATGGCAAGAAAAGCTGGCAACTTCTATGTACCTGCAGAAC
CCAAATTGGCGTTTGTCTTCAGAATCAGAGGTATCAATGGCGTGAGCCCAAAGGTTCGAAAGATGTTGCAGCTTC
TTTGCCTTCGTCGAGTCTTCAATGGAACCTTCGTGAAGCTCAACAAGGCTTCGATTAACATGCTGAGGATTGTAG
AGCCATATACTGCATGGGGGTGCCCCAATCTGAAGTCAGTAAATGAACTAATCTACAAGCGTGGTTATGGCAAAA
TCAATAAGAAGCAAATTGCTTTGACAGATAACGCTTTGATTGCTCGATCTCTTGGTAAATACGGCATCATCTGCA
TGGAGGATCTGATTCATGAGATCTATACTGTTGGAAAACACTTCAAAGAGGCAAATAACTTCCTGTGGCCCTTCA
AATTGTCTTCTCCACGAGTTGGAATGAAGAAAAAGACCACCCATCTTGTAGAAGGTGGAGATGCTGGCAACAGGG
AGGACAAGATCAACAGGCTTATTAGAAAAATGAACCAAGGTGTCTACCATGATTATTTTTCTAAGCTGGTTGGT<u>T</u>
<u>AA</u>TAAACAGTACCTGCTCTCAAATTG

4699/6881
# FIGURE 4332

MYRTEIRMARMARKAGNFYVPAEPKLAFVFRIRGINGVSPKVRKMLQLLCLRRVFNGTFVKLNKASINMLRIVEP
YTAWGCPNLKSVNELIYKRGYGKINKKQIALTDNALIARSLGKYGIICMEDLIHEIYTVGKHFKEANNFLWPFKL
SSPRVGMKKKTTHLVEGGDAGNREDKINRLIRKMNQGVYHDYFSKLVG

## FIGURE 4333

ATGATAAATGGTATTCAGTACTGGACTGTGCCTGAGGAGAGGCTTCAACTGAATGTGGATGTTGATGACCTGGAC
TGTCAGGGTCCACCTCTACCTCCCAGAGCCTCAGAGCCCACAAGACAAAAAACTGAGCCTGTGAAGCGATTAAAA
GTCTGGATCTTAGAGGGAGCTCCAAGGAAAACTAAATCCAAAATGCCTCATCTGGGAGGTGAAGCAATGATTGAA
CAAGGATTGCTGAGCTTTGGCAAGGAAGAAAAGGGCACTTGCTGTCAACAGAAAGCAGGTGTTCTGGGAAGACTG
GAGGAGCTGTGGGTGGTGAGGCAGACACTGGGCTTGGCTCTGGAAGCCCGAACTCAGAACATTAAGCTGAACCAT
CTGAAGCTCCTCCACGAAACAGGATATTTGTTGCAGACACTCAGAGAATCTCCAGAGAAACCTGGCTTAGAGGCC
GTGGATTCAGGGACATCGCTGAAGCCCTGTGCTGGTGGAATTCCCACTACTGATATCTTGGGCCAGGAACTGCAT
TCTGGGAACCAGCACTGGTACGAGGAGCTGCAGGTCACAGCAGGCAGACATGGGGACGACCTGCGCAACACCAAG
CAGGAGATTGCTGAGATCAACCGCATGATCCAGAGGCTGAGATCTGAGATCGACCATGTCAAGAAGCAGCATATT
ATATCTCAGGCATCGGGACAGGTCACTGCCTATATTCCTTCTTCCTCCAAGCAGGCAAGCTTCATATTAGTGTCT
CCACTTGCTGGGGAACTTTGA

## FIGURE 4334

GGGAAGGGCGGCCGACCCATATAAGCAGCCTGCGGGGCGTTCCCTCGGGTTGTGGTTGGTGTGCGGGTTTCGGTT
GGAGGACTCGTTGGGGAGGTGGCCTGCGCTTGTAGAGACTGCATCCCCGAGACGATGGCGGAGGGAGATAATCGC
AGCACCAACCTGCTGGCTGCAGAGACTGCAAGTCTGGAAGAACAGCTGCAAGGATGGGGAGAAGTGATGCTGATG
GCTGATAAAGTCCTCCGATGGGAAAGAGCCTGGTTTCCACCTGCCATCATGGGTGTGGTTTCTTTGGTGTTTCTG
ATTATCTACTATCTAGATCCATCTGTTCTGTCCGGCGTTTCCTGTTTTGTTATGTTTTTGTGCTTGGCTGACTAC
CTTGTTCCCATTCTAGCGCCTAGAATTTTTGGCTCCAATAAATGGACCACTGAACAACAGCAAAGATTCCATGAA
ATTTGCAGCAATCTAGTAAAAACTCGACGCAGAGCTGTGGGTTGGTGGAAACGCCTCTTCACACTAAAGGAAGAA
AAACCTAAGATGTACTTCATGACCATGATCGTTTCCCTTGCTGCGGTTGCTTGGGTGGGACAACAAGTCCACAAC
CTGCTTCTCACCTACCTGATAGTGACTTCCTTACTATTGCTTCCTGGACTAAACCAACATGGAATCATTTTGAAG
TACATTGGAATGGCCAAGAGGGAGATAAACAAACTTCTCAAACAAAAGAAAAGAAAAACGAATGATTCATCTGC
TTTAATCAGTGTGATTAATGCAGCACCCATTGCCCCGGGAACCGTTTCTGCTGTACTATCTGGATACTAAAATGT
TACGGAAGTAGCTCTTTGTTCTCCCTCACTCTGCCCTTAGTTAATAGAAATTCAGACTCGCCAAGTAAGGCTTCG
TGCATAGTGTCTTCATGTCGCGTATAGTTGAGCGCGTTCTTAGCAGTTGGCTTCATGGACAACTCATTAGTGTTT
TGACTTTTCTTACCCAGCGTTAATTGAATTCTTGCTTTTAGACAACTTCCTTTTTGTAGTGGTGAACCTTGCCCT
TTAGTACAGTTCAAGTGAATCTGGATAATTGTTCATCTTTGCTTTAGCTTAGATACCATGTAGTGGTCTGTGGCT
ACAGGAAGCTGGTTCTGTCTGCTTCCACAGTCTGCTTAAAAAACTGTCTGACTTCGTGAATATAGAGACCAAGTT
TACCACTTCTGATGAAGAGACCAATTAAGATTCATTCCTCATTCTGTTTCTTTCCAGTGGGAGAAGAGTCCCCAT
GAAATAAGATGAAACTGATTCCATGCACTAGTACATGTAGGCTTCTCCCTTGTGCAAAGCTTAGCAATTTGTAGG
AAACTTTGATCTTTTTGTCCAAGAAAAGGAATGTCTGACAGGCTTAAGCTTTCGTCCCCTTGCACTTAGACTCGA
AGTTAGTAAATCCTTAAAGGCTTTTTAATAGCAGACTTCCAAAAGATTGCATTTAGGATTTCTAGCATGCTTTTA
ATTTCAGATTTTCAGCTGACATTAGCTATAGTATACAGTAGGTTAAGACTCATGTCTATGACTTTCACTCTAAGA
CTGGCAAAAGGACAGCAGTCTTCTATGTTTAGTCAATATTCATTTCAGTAGAAGATAATCTTATCTAATTTTTGA
GACCAGAATAAGCCTTTTAAGGTAAACCTCAAAATTATCATTTATGGTAATACTGACCATTTTAGTCCCCTAGG
TTTGACATGGGAGATAGTGACTACACTGGTGTCTGACTTTTTTCCTAGAGATTTCTCCCTGAAAAATACAAGGGC
TGTTGGTGAGAGCAGACTTGAGGTGATGATAGTTGGCCTCTGGTCTACAAAGATTTCATAACTCCTTGGAAAGCT
TCTTATAATCATTCTTAACTTCTTGGTAGCTAGAAATTTAGAGTAGTTGAAATCTTTAGGAATGAACTTCTGAGG
GCCAAAAAATGTGACTGACGGGAACAATTCTTAAACTGATTAACTAGCTGTAATATAGTTTTGTGAATTTATTGC
ACTGATGTTGTACCTTGTGGTATATCTGTCCCTATTAAATAAGTGTTGTTTTCTCCTCTTTAATATTGCTGTGAA
CAGTGGTGCCCATTGTAGCATATGTTTGATTTTTTTTTATTATTTCATAAGAAAACTACGTTAATTTTACCTTAC
TTTCATTGTAAATAAGCCTGTCTTCCTATCTGGATTTTTTGTGTGCATACATATTCTACTGATTAACTACTTTTG
CAGTTTTAATCCTGTATTATTTCTTCTACTTTGTTTTGTGTAAAAGGGGAAAAAATAAAAAAAGCTGGAATCTTC
ATGTCTC

4702/6881
# FIGURE 4335

GCCCCAGGAGCCCGGCGGGTCCGGGACTCCCGTCCGTGCCGGTGCGGGCGCCGGC**ATG**TGGCTGTGGGAGGACCA
GGGCGGCCTCCTGGGCCCTTTCTCCTTCCTGCTGCTAGTGCTGCTGCTGGTGACGCGGAGCCCGGTCAATGCCTG
CCTCCTCACCGGCAGCCTCTTCGTTCTACTGCGCGTCTTCAGCTTTGAGCCGGTGCCCTCTTGCAGGGCCCTGCA
GGTGCTCAAGCCCCGGGACCGCATTTCTGCCATCGCCCACCGTGGCGGCAGCCACGACGCGCCCGAGAACACGCT
GGCGGCCATTCGGCAGGCAGCTAAGAATGGAGCAACAGGCGTGGAGTTGGACATTGAGTTTACTTCTGACGGGAT
TCCTGTCTTAATGCACGATAACACAGTAGATAGGACGACTGATGGGACTGGGCGATTGTGTGATTTGACATTTGA
ACAAATTAGGAAGCTGAATCCTGCAGCAAACCACAGACTCAGGAATGATTTCCCTGATGAAAAGATCCCTACCCT
AAGGGAAGCTGTTGCAGAGTGCCTAAACCATAACCTCACAATCTTCTTTGATGTCAAAGGCCATGCACACAAGGC
TACTGAGGCTCTAAAGAAAATGTATATGGAATTTCCTCAACTGTATAATAATAGTGTGGTCTGTTCTTTCTTGCC
AGAAGTTATCTACAAGATGAGACAAACAGATCGGGATGTAATAACAGCATTAACTCACAGACCTTGGAGCCTAAG
CCATACAGGAGATGGGAAACCACGCTATGATACTTTCTGGAAACATTTTATATTTGTTATGATGGACATTTTGCT
CGATTGGAGCATGCATAATATCTTGTGGTACCTGTGTGGAATTTCAGCTTTCCTCATGCAAAAGGATTTTGTATC
CCCGGCCTACTTGAAGAAGTGGTCAGCTAAAGGAATCCAGGTTGTTGGTTGGACTGTTAATACCTTTGATGAAAA
GAGTTACTACGAATCCCATCTTGGTTCCAGCTATATCACTGACAGCATGGTAGAAGACTGCGAACCTCACTTC**TA**
**G**ACTTTCACGGTGGGACGAAACGGGTTCAGAAACTGCCAGGGGCCTCATACAGGGATATCAAAATACCCTTTGTG
CTAGCCCAGGCCCTGGGGAATCAGGTGACTCACACAAATGCAATAGTTGGTCACTGCATTTTTACCTGAACCAAA
GCTAAACCCGGTGTTGCCACCATGCACCATGGCATGCCAGAGTTCAACACTGTTGCTCTTGAAAATCTGGGTCTG
AAAAAAACGCACAAGAGCCCCTGCCCTGCCCTAGCTGAGGCACACAGGGAGACCCAGTGAGGATAAGCACAGATTG
AATTGTACAATTTGCAGATGCAGATGTAAATGCATGGGACATGCATGATAACTCAGAGTTGACATTTTAAAACTT
GCCACACTTATTTCAAATATTTGTACTCAGCTATGTTAACATGTACTGTAGACATCAAACTTGTGGCCATACTAA
TAAAATTATTAAAAGGAGCACTAAAGGAAACTGTGTGCCAAGCATCATATCCTAAGGCATACGGAATTTGGGGA
AGCCACCATGCAATCCAGTGAGGCTTCAGTGTACAGCAACCAAATGGTAGGGAGGTCTTGAAGCCAATGAGGGA
TTTATAGCATCTTGAATAGAGAGCTGCAAACCACCAGGGGGCAGAGTTGCACTTTTCCAGGCTTTTTAGGAAGCT
CTGCAACAGATGTGATCTGATCATAGGCAATTAGAACTGGAAGAAACTTCCAAAAATATCTAGGTTTGTCCTCAT
TTTACAAATGAGGAAACTAAACTCTGTGGAAGGGAAGGGGTTGCCTCAAAAGTCACAGCTTAGCTGGGCACAGTG
GCTCATGCCGATAATCCCAGCAATTCAGAAAGCTGAGGCAGGAGGATTACTTGAGGCCAGACTGGGCAATATAGC
AAGACCCCATCTCTAAAAAATTAGGCATGGTGGTGCATGCCTGTATTCCCAGCTACTCAGGAGGTTGAGGTGGGA
GGATCACTTGAGCCCAGAAGTTCAAGGCTGCAATGAGCCATGATTACACCACGGCACTACAACCTTGGTGGCACA
GTGAGAACCTGACTCTTAAAAAAAAAAAAAAAAAA

## FIGURE 4336

MWLWEDQGGLLGPFSFLLLVLLLVTRSPVNACLLTGSLFVLLRVFSFEPVPSCRALQVLKPRDRISAIAHRGGSH
DAPENTLAAIRQAAKNGATGVELDIEFTSDGIPVLMHDNTVDRTTDGTGRLCDLTFEQIRKLNPAANHRLRNDFP
DEKIPTLREAVAECLNHNLTIFFDVKGHAHKATEALKKMYMEFPQLYNNSVVCSFLPEVIYKMRQTDRDVITALT
HRPWSLSHTGDGKPRYDTFWKHFIFVMMDILLDWSMHNILWYLCGISAFLMQKDFVSPAYLKKWSAKGIQVVGWT
VNTFDEKSYYESHLGSSYITDSMVEDCEPHF

4704/6881
# FIGURE 4337

CTCTTTCCGCCATCTTTCCGCGCCGGCCACAATGGTGCGCATGAATGTCCTGGCAGATGCTCTCAAGAGTATCAA
CAATGCCGAAAAGAGAGGCAAACGCCAGGTGCTTATTAGGCCGTGCTCCAAAGTCATCGTCCGGTTTCTCACTGT
GATGATGAAGCATGGTTACATTGGCGAATTTGAAATCATTGATGACCACAGAGCTGGGAAAATTGTTGTGAACCT
CACAGGCAGGCTAAACAAGTGTGGGGTGATCAGCCCCAGATTTGACGTGCAACTCAAAGACCTGGAAAAATGGCA
GAATAATCTGCTTCCATCCCGCCAGTTTGGTTTCATTGTACTGACAACCTCAGCTGGCATCATGGACCATGAAGA
AGCAAGACGAAACACACAGGAGGGAAAATCCTGGGATTCTTTTTCTAGGGATGTAATACATATATTTACAAATA
AAATGCCTCATGGACTCTGGTGCTTCCACTTGGTCGTTTTGAGCCTTTACAGCAGTGTAGCCACAGCTTCTGCGG
CAGCATGCAGTTGCTTCGTTTATCGGTGAATGCGATTCCCAGATTCAAGTAGTTCTCGTGCCTCAGCCTCCTGAG
TAGCTGGGATTACAGGTGTGTGCCACCATGTCTGGCTGATTTTTGTATTTTTAGTAGAGGTGGGGTTTCACCATG
TTGGCCAGGCTGGTCTCGAACTCCTGATCTCAAGTGATCTGCCTGCCTTGGTCTCCCAAAGTGCTGGGATTACAG
GTGTGACCACCACGCCCTGCCTTAAGAATTGTTCCAAGAGAATCTGGTGCCACTTGCAGGTGCCCATTGAAGTGC
AATGGGCACTGTTGATCACTGAGGAGGTAGTGGGTGCTGACCCGGTGCTGGGGCCTGTCCCCTAGTCTCTGCTTT
GCCCTTGGCTAGCTAGGTGGTGTGCCAAGTGGGGAGAGAAGCTACCTTATTAAGGGGCATGGATCAGCTTCCTGA
AAGGAGGGCCTGCCTCTGTAAGATATGGGAAGTCGCTGAGAATGTTACAGAACGGCCCTAGAGATGGGGCAGATA
ACGGCCCCCATTTGTGAGAAGTGAGTTGGGAGGCATGTTTGGGGCCTCTGATGTTTGGGAGGCTGTGGGTAATTA
ACATGAGTTTTGGGGTCCAGCAGCAGAATTCAGGTTCCTCTTCCACTCAGTAACCTCAGCATCCGTATCTGTAA
TGGGAATGATACAAAACCTATCCCCAAGTTGAGGGAAAAATGAGATTGTGTAAAGCGCACTTGGCACATGACAGT
CACAAGCATGGGGACAGTGAGTCCAGAAGGATTTTCTTATGCCAGCATTGTAAGCCCTAGGATCACAGGGCTCTG
GCTTGTTTAACCATCGTGTCTCTGGTCCCTAGCCTGCAAACCTGGTGTGTAGGGATGCCTCAGTCGCTTACATGT
TGATTGAGTGAATCGTCGGTTTCTTTCTGGACACTGACTTCAAAAATAAA

4705/6881
# FIGURE 4338

CGCAGAGTCCCCGGGCCAAG<u>ATG</u>GCTGCGCGGTGCTCCACACGCTGGTTGCTGGTGGTTGTGGGGACCCCGCGGC
TGCCGGCTATATCGGGTAGAGGGGCCCGGCCGCCCAGGGAGGGCGTGGTGGGGGCATGGCTGAGCCGCAAGCTGA
GCGTCCCCGCCTTTGCGTCTTCCCTGACCTCTTGCGGCCCCCGAGCGCTGCTGACATTGAGACCTGGTGTCAGCC
TTACAGGAACAAAACATAACCCTTTCATTTGTACTGCCTCCTTCCACACGAGTGCCCCTTTGGCCAAAGAAGATT
ATTATCAGATATTAGGAGTGCCTCGAAATGCCAGCCAGAAAGAGATCAAGAAAGCCTATTATCAGCTTGCCAAGA
AGTATCACCCTGACACAAATAAGGATGATCCCAAAGCCAAGGAGAAGTTCTCCCAGCTGGCAGAAGCCTATGAGG
TTTGAGTGATGAGGTGAAGAGGAAGCAGTACGATGCCTACGGCTCTGCAGGCTTCGATCCTGGGGCCAGCGGCT
CCCAGCATAGCTACTGGAAGGGAGGCCCCACTGTGGACCCCGAGGAGCTGTTCAGGAAGATCTTTGGCGAGTTCT
CATCCTCTTCATTTGGAGATTTCCAGACCGTGTTTGATCAGCCTCAGGAATACTTCATGGAGTTGACATTCAATC
AAGCTGCAAAGGGGGTCAACAAGGAGTTCACCGTGAACATCATGGACACGTGTGAGCGCTGCAACGGCAAGGGGA
ACGAGCCCGGCACCAAGGTGCAGCATTGCCACTACTGTGGCGGCTCCGGCATGGAAACCATCAACACAGGCCCTT
TTGTGATGCGTTCCACGTGTAGGAGATGTGGTGGCCGCGGCTCCATCATCATATCGCCCTGTGTGGTCTGCAGGG
GAGCAGGACAAGCCAAGCAGAAAAAGCGAGTGATGATCCCTGTGCCTGCAGGAGTCGAGGATGGCCAGACCGTGA
GGATGCCTGTGGGAAAAAGGGAAATTTTCATTACGTTCAGGGTGCAGAAAAGCCCTGTGTTCCGGAGGGACGGCG
CAGACATCCACTCCGACCTCTTTATTTCTATAGCTCAGGCTCTTCTTGGGGGTACAGCCAGAGCCCAGGGCCTGT
ACGAGACGATCAACGTGACGATCCCCCCTGGGACTCAGACAGACCAGAAGATTCGGATGGGTGGGAAAGGCATCC
CCCGGATTAACAGCTACGGCTACGGAGACCACTACATCCACATCAAGATACGAGTTCCAAAGAGGCTAACGAGCC
GGCAGCAGAGCCTGATCCTGAGCTACGCCGAGGACGAGACAGATGTGGAGGGGACGGTGAACGGCGTCACCCTCA
CCAGCTCTGGTGGCAGCACCATGGATAGCTCCGCAGGAAGCAAGGCTAGGCGTGAGGCTGGGGAGGACGAGGAGG
GATTCCTTTCCAAACTTAAGAAAATGTTTACCTCA<u>TGA</u>TATCCCAGCCGAGGAAAAAGATCCACTGGAAACTAGG
CCGGGAAGCAGCAGCCCCTCCAAGGGCCAGGGCACCTGGGAGACGGGAGGATTCCAGAACAGCAGCACTGAGCTC
CCACCCGCAGAGCCTCTGGACGGCCTTGGCAACAGCAAAATCATGGGACAACACCTCTCTCCACGGAAAGGTCAC
AGTGGACAGCCCGGGCAGTAGGATGCAGCCCCAGAGGCTGGTGGCAGTTTCCTGTCCATTGGTAGGTGACGGCCC
CTGGCTCAGGCAGAGGGAGATGGTTAGACTCTTGCAGGGCTAAAACTCTAATTTGGAATTGAATATTGTGGATAT
CTTAGTTAAAGGCCATGCTTACAGCTTAGAAATGAAGCCTTAAGCTGCATCAAGTTACGAAGTGATTAATTTCCT
TCTCAGCAAACCTCCGGGAGGTTCCAGAATGAGTTCTTCCTGACAGGTTGTCTTCACTGGGAGCGTGGGGCCCCC
AGGCCCCACCAGCACCGTCCTCCCCTAATGAGGGGCCCTGCCGAGGCATCAGCTGCTCTGCTCAGTTAGTTTTTA
TTCCCGGGGTACCAAGCAGCTGCACAGTCGGTGCCTGGAGGCACGTAGAGGCCCAGAGAGTCCCTGGGGGTTCT
GCTCTGACCGTGTGGGTGGTGATCCTTGTCAGGATGTACAGTCCTTGCTCCCACCCCATCCGGGATGGCCGCCTG
TCCCTGACTATTGAGTCCTGTTGTTGTAAGCCAGGCATGGAGGGCTCCTGCCCTTCTGCTGAGCCACAGCCCATT
GCAGCACTGTGCTGGCCAGACTTCAGCTGCCTTGGGAACTGAAGCCCTGCCACTGTTGCTAGTCAGGGGCTTGGT
TCTCCCACTTACACTGTTGACATCTATTTTCTGAAGTGTGTTTAAATTATTCAGTGCTAATCATTGTTTTTTCCT
TTGTAAATGTTGATTCAGAAAAGGAAAGCACAGGCTAAGCAGTTGAAGGTTCCCCACCATTCAGTGAGAGCAGAA
CCCCCATTCCCCAGCCTCTGCTGGTAGCATGTCGCAGTTTCCATGTGTTTCAGGATCTTCGGGCTGTCGTTAGAC
AGGTTAATGAAGAACACTTCTCAACAGTTTCCTTTTTGTTTTCCTTTATAATTCACTAAAATAAAGCATCTATTA
GTGTCTG

4706/6881
# FIGURE 4339

MAARCSTRWLLVVVGTPRLPAISGRGARPPREGVVGAWLSRKLSVPAFASSLTSCGPRALLTLRPGVSLTGTKHN
PFICTASFHTSAPLAKEDYYQILGVPRNASQKEIKKAYYQLAKKYHPDTNKDDPKAKEKFSQLAEAYEVLSDEVK
RKQYDAYGSAGFDPGASGSQHSYWKGGPTVDPEELFRKIFGEFSSSSFGDFQTVFDQPQEYFMELTFNQAAKGVN
KEFTVNIMDTCERCNGKGNEPGTKVQHCHYCGGSGMETINTGPFVMRSTCRRCGGRGSIIISPCVVCRGAGQAKQ
KKRVMIPVPAGVEDGQTVRMPVGKREIFITFRVQKSPVFRRDGADIHSDLFISIAQALLGGTARAQGLYETINVT
IPPGTQTDQKIRMGGKGIPRINSYGYGDHYIHIKIRVPKRLTSRQQSLILSYAEDETDVEGTVNGVTLTSSGGST
MDSSAGSKARREAGEDEEGFLSKLKKMFTS

## FIGURE 4340

<u>ATG</u>GTGGACAAGAAACTGGTGGTGGTTTTCGGAGGCACAGGTGCCCAGGGTGGCTCCGTGGCCCGCACACTCCTG
GAAGATGGGACATTCAAGGTTCGAGTGGTGACCCGAAACCCTAGGAAGAAGGCAGCAAAGGAGCTGAGGCTGCAA
GGTGCAGAAGTAGTGCAGGGAGACCAAGATGACCAGGTCATCATGGAGCTGGCCCTGAATGGGGCTTACGCCACC
TTCATCGTGACCAATTACTGGGAGAGCTGCAGCCAGGAGCAGGAGGTCAAGCAGGGGAAGCTGCTCGCTGATCTG
GCCAGGCGCCTGGGCCTCCACTATGTGGTCTACAGCGGCCTGGAGAACATCAAGAAGCTGACGGCAGGGAGATTG
GCCGCCGCGCACTTTGACGGCAAAGGGGAGGTGGAGGAATATTTCCGGGACATTGGCGTTCCCATGACCAGTGTG
CGGCTGCCCTGCTATTTTGAGAACCTCCTCTCCCACTTCTTGCCCCAGAAAGCCCCAGACGGAAAGAGCTACTTG
CTGAGCTTGCCCACAGGTGACGTTCCCATGGATGGCATGTCCGTGTCTGACCTGGGTCCTGTGGTGCTCAGCCTT
TTGAAGATGCCAGAAAAATACGTCGGCCAGAACATCGGGCTGAGCACTTGCAGGCACACGGCCGAGGAGTACGCT
GCCCTGCTCACCAAGCACACCCGCAAGGTCGTGCACGATGCCAAGATGACTCCTGAGGACTACGAAAAGCTTGGC
TTTCCCGGTGCCCGGGACCTGGCCAACATGTTCCGTTTCTATGCCCTGAGACCCGACCGTGACATCGAGCTGACC
CTGAGACTCAACCCCAAGGCCCTGACGCTGGACCAGTGGCTGGAACAGCACAAAGGGGACTTCAACCTGCTG<u>TGA</u>

4708/6881
## FIGURE 4341

MVDKKLVVVFGGTGAQGGSVARTLLEDGTFKVRVVTRNPRKKAAKELRLQGAEVVQGDQDDQVIMELALNGAYAT
FIVTNYWESCSQEQEVKQGKLLADLARRLGLHYVVYSGLENIKKLTAGRLAAAHFDGKGEVEEYFRDIGVPMTSV
RLPCYFENLLSHFLPQKAPDGKSYLLSLPTGDVPMDGMSVSDLGPVVLSLLKMPEKYVGQNIGLSTCRHTAEEYA
ALLTKHTRKVVHDAKMTPEDYEKLGFPGARDLANMFRFYALRPDRDIELTLRLNPKALTLDQWLEQHKGDFNLL

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# FIGURE 4342

GACCAGAGGAGCGAGAGCAGCAAGAACCACACCCAGCAGCAATGTCAGCGGAAGTGGAAACCTCAGAGGGGGTAG
ACGAGTCAGAAAAAAAGAACTCTGGGGCCCTAGAAAAGGAGAACCAAATGAGAATGGCTGACCTCTCGGAGCTCC
TGAAGGAAGGGACCAAGGAAGCACACGACCGGGCAGAAAACACCCAGTTTGTCAAGGACTTCTTGAAAGGCAACA
TTAAGAAGGAGCTGTTTAAGCTGGCCACCACGGCACTTTACTTCACATACTCAGCCCTCGAGGAGGAAATGGAGC
GCAACAAGGACCATCCAGCCTTTGCCCCTTTGTACTTCCCCATGGAGCTGCACCGGAAGGAGGCGCTGACCAAGG
ACATGGAGTATTTCTTTGGTGAAAACTGGGAGGAGCAGGTGCAGTGCCCCAAGGCTGCCCAGAAGTACGTGGAGC
GGATCCACTACATAGGGCAGAACGAGCCGGAGCTACTGGTGGCCCATGCATACACCCGCTACATGGGGGATCTCT
CGGGGGGCCAGGTGCTGAAGAAGGTGGCCCAGCGAGCACTGAAACTCCCCAGCACAGGGGAAGGGACCCAGTTCT
ACCTGTTTGAGAATGTGGACAATGCCCAGCAGTTCAAGCAGCTCTACCGGGCCAGGATGAACGCCCTGGACCTGA
ACATGAAGACCAAAGAGAGGATCGTGGAGGAGGCCAACAAGGCTTTTGAGTATAACATGCAGATATTCAATGAAC
TGGACCAGGCCGGCTCCACACTGGCCAGAGAGACCTTGGAGGATGGGTTCCCTGTACACGATGGGAAAGGAGACA
TGCGTAAATGCCCTTTCTACGCTGCTGAACAAGACAAAGGTGCCCTGGAGGGCAGCAGCTGTCCCTTCCGAACAG
CTATGGCTGTGCTGAGGAAGCCCAGCCTCCAGTTCATCCTGGCCGCTGGTGTGGCCCTAGCTGCTGGACTCTTGG
CCTGGTACTACATGTGAAGCACCCATCATGCCACACCGGTACCCTCCTCCCGACTGACCACTGGCCTACCCCTTT
CTCCAGCCCTGACTAAACTACCACCTCAGGTGACTTTTTAAAAAATGCTGGGTTTAAGAAAGGCAACCAATAAAA
GCCAGATGCTAGAGCCTCTGCCTGACAGCATCCTCTCTATGGGCCATATTCCGCACTGGGCACAGGCCGTCACCC
TGGGAGCAGTCGGCACAGTGCAGCAAGCCTGGCCCCCGACCCAGCTCTACTCCAGGCTTCCACACTTCTGGGCCC
TAGGCTGCTTCCGGTAGTCCCTGTTTTTGCAGTACATGGGTGACTATCTCCCCTGTTGGAGGTGAGTGGCCTGTA
AGTCCAAGCTGTGCGAGGGGGCCTTGCTGGATGCTGCTGTACAACTTCTGGGCCTCTCTTGGACCCTGGGAGTGA
GGGTGGGTGTGGGTGGAAGCCTCAGAGGCCTTGGGAGCTCATCCCTCTCACCCAGAATCCCTCTAACCCCTTGGG
TGCGGTTTGCTCAGCCCCAGCTTATCTCCTCCTCCGCGCTGTGTAAATGCTCCAGCACTCAATAAAGTGGGCTTT
GCAAGCT

4710/6881
# FIGURE 4343

MSAEVETSEGVDESEKKNSGALEKENQMRMADLSELLKEGTKEAHDRAENTQFVKDFLKGNIKKELFKLATTALY
FTYSALEEEMERNKDHPAFAPLYFPMELHRKEALTKDMEYFFGENWEEQVQCPKAAQKYVERIHYIGQNEPELLV
AHAYTRYMGDLSGGQVLKKVAQRALKLPSTGEGTQFYLFENVDNAQQFKQLYRARMNALDLNMKTKERIVEEANK
AFEYNMQIFNELDQAGSTLARETLEDGFPVHDGKGDMRKCPFYAAEQDKGALEGSSCPFRTAMAVLRKPSLQFIL
AAGVALAAGLLAWYYM

# FIGURE 4344A

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CGGCCTGGTCCGGGCCATGTCCGCGTGAGGACCCCGCCGCTGTCGCCGCTCCCGTTCCGGCCCTGGCCCCTCTGC
CCGGCAGCGCCGCGCACCATGGGCTCCATTCTCAGCCGCCGCATCGCGGGGGTGGAGGACATCGACATCCAGGCG
AACTCGGCCTATCGCTACCCTCCGAAGTCCGGAAACTACTTTGCTTCGCACTTTTTCATGGGAGGAGAGAAATTC
GACACCCCCCACCCTGAAGGTTACCTCTTTGGAGAGAACATGGATCTGAACTTCCTGGGCAGCCGCCCGGTCCAG
TTTCCCTACGTCACTCCTGCCCCCCACGAGCCCGTGAAGACGCTGCGGAGCCTGGTGAACATCCGCAAAGACTCC
CTGCGGCTGGTGAGGTACAAAGACGATGCCGACAGCCCCACCGAGGACGGCGACAAGCCCCGGGTGCTCTACAGC
CTGGAGTTCACCTTCGACGCCGATGCCCGCGTGGCCATCACCATCTACTGCCAGGCATCGGAGGAGTTCCTGAAC
GGCAGGGCAGTATACAGCCCCAAGAGCCCCTCGCTACAGTCCGAGACCGTCCACTACAAGAGAGGGGTGAGCCAG
CAGTTCTCCCTGCCCTCCTTCAAGATTGACTTCTCGGAATGGAAGGATGACGAGCTGAACTTTGACCTGGACCGG
GGCGTGTTTCCAGTAGTCATCCAGGCTGTGGTGGACGAAGGAGATGTGGTGGAAGTGACTGGCCACGCCCACGTG
CTCTTGGCTGCCTTTGAAAAGCACATGGACGGCAGCTTCTCTGTGAAGCCTTTAAAGCAGAAGCAAATTGTGGAC
CGGGGTCAGCTACCTCCTGCAGGAGATCTATGGCATTGAGAACAAGAACAACCAGGAGACCAAGCCCTCGGACGAC
GAGAACAGCGACAACAGCAACGAGTGTGTGGTGTGCCTGTCCGACCTGCGGGACACGCTGATCCTGCCCTGCCGC
CACCTGTGCCTCTGTACCTCCTGCGCCGACACGCTGCGCTACCAGGCCAACAACTGCCCCATCTGCCGGCTCTTT
CCGGGCCCTCCTGCAGATCCGGGCGGTGCGGAAGAAGCCAGGAGCCCTGTCCCCGTGTCCTTCAGCCCCGTCCT
GGCCCAGAGCCTGGAGCATGATGAGCACTCTTGTCCCTTTAAAAAATCAAAGCCGCACCCCGCCTCCCTGGCCAG
CAAGAAACCTAAAAGGGAAACAAACTCTGACAGCGTCCCACCTGGCTACGAGCCCATCTCGCTGCTCGAGGCGCT
CAACGGCCTCCGGGCTGTCTCCCCGGCCATCCCCTCGGCCCCTCTTTATGAAGAAATCACCTATTCAGGCATCTC
GGACGGCCTGTCCCAGGCCAGCTGTCCCCTCGCGGCTATCGACCACATCCTGGACAGCAGCCGCCAGAAGGGCAG
GCCGCAGAGCAAGGCCCCCGACAGCACCCTACGGTCCCCGTCTTCCCCCATCCACGAAGAGGATGAGGAGAAGCT
CTCCGAGGACGTGGACGCCCCTCCCCCACTGGGTGGCGCAGAGCTGGCCCTGCGGGAAAGCAGCTCCCCTGAGAG
TTTCATAACAGAAGAGGTTGATGAGTCGTCGTCACCACAGCAAGGGACCCGAGCAGCTTCCATTGAGAATGTCCT
GCAGGACAGCAGCCCCGAGCACTGTGGCCGAGGCCCACCTGCTGACATCTACCTGCCAGCCCTGGGGCCCGACTC
CTGCTCTGTTGGTATAGACGAGTAAGCCGGTACGTGACCTCCCAGACGCGCTTCGGGGGCTCTGACGCGCGTCCT
TGGAGAGAGGAGCCCTCCCCTGCTCTCTGGCGGGGGTTCCTTCTGGTTTTTGGGTCTTCGTCCGCATCCGCATCT
TCCCAGGGGCCCTGGATTCCGAATCCAGAGCTCTCCAGTGGCTGCTGCACCTTCCCCCAGAAAGTGGCCTCCTGG
GGGGTCCTGACTTTCGGGGCCAGAGGTCTCTCCATCTGGACTAGGCGGCCGGTCAGGCTCTTCTTCCAGCCTTGA
GGGGCCCTGGAACAGTCCCAGCCCAGGCAGGGAGACAGACACAGCCCAGGTGCGCCAGAGCCACTGTCCACTGCG
GGAGGCAGGAGCTTGAGGGATGAGGGCAGCACCGTGGAGGGAACCCCAGGGAGACATGGGGTGAGCGTCCCAAGG
GGAGAGGCCTGGGCCTGGCCTTGTTCCGGATGGTCCCACCATGAGTTCGCATCGGTCCTGCAGCAGACACGTTAG
GACGCTCAGCAGGTCCACTCCCGTGTTCCGGTCGTGGCTTTAACAATTCATGGGGAAAGAATGCGCCCCGATTGG
GAGAGCCCCTGGATCACGTCTTCCCAAGCTCAGTCCCTGTCTCTTGGAGGGAGTCCGTCCTCGAGGGGCCCTCTG
GTGCCCAGGGGAGAGTATCTTGCGTCCTGTCCTGAGGGCGTCCGCTCACACAGCCACCTGCTCCCCCGCTCCCTC
CTTCCCTTGTCAGCATGGCCACCGTGGGCCTGGCATCACCATGGGCCTGGCACACAGTCCCTCGTGGGCTGCCTT
TGTGCCATGAGCCCACTGCTGCCGACTCACCTGTCCCTCCCAGTACTGGAACCTTCTGGAACACCAGCACTAAAA
GATAGGAGGCCCTGTGAGGTTGGCATCCCCCATCCCCCCCAAGAGGCGCCCTCTACCAGGGTGGCCCAGGTGAGT
GTTTTACAGAAGGCGGCTCTGTCCAGGCAGTGGTTCGCACCTATAAGCCCGGTACTTTGGGAGACCGAGGGGATA
GATCACTTGAGCCCAGGAATTCAAGATCAGTGTAGAAAACATAGACCCCCTCTCTATGAAAAATAAAAAATTGGC
TTGGGCGTGGTAGCTTGTGCCTGTGGTCCCAGCTACTCAGGGGTGCTGAGGTGGGAGGATTGCCGGAGCTGGGGA
GGTCAAGGCCCACTCCAGCCTGAGACGCTGTCTCAATAAAAAAAAAATACACACACACCCACCCACCCACTCCAGC
CTGAGACCCTGTCTCAAGAAAAAAAAAATACACACACACACACACACACACACGGGGGAGAGAGAGAAG
GCAGCTCCAGGAGTGCCACCAAAATGTAGGCAGACGGATTGGGGACCCTCTGCCTTCCCAGAGGGTCTTGGCACA
CAAGCTGCGTGCAGCTCTGGTCTGCCGAGGCCCATGCAGCCTGCTGGGAGGTGCCTGGCCGGGGGTGCAGGCTCT
AAGAGGCCCTTTCCCCTTGGGTGGACTTGAGCCGGGTCAGGGAGAACTTCGCTTCTTTTGACTGCGCTCTGCATT
CCCATGAACCTCTGTCTTCTTGAGCCCAGCGAGTCCCTCTGTTGACCCCTGTCCTGAGCCATTATACCCCTAGAT
TGAAACAGTCAGCACCTTTCAGACGGCCCCGGCCTGCGCATCGGTGGAAGGTGCCGTGCGAATGTCACGATTCAG
GTCAAGCTTCCGGAGCTGGGGAGTGCAGGTGTGATCTAGAACAGGGCTCACAGCCTCGGAAACCTGCTCTCGCCG
CGGCCCCCGAAGAAAATAGACGCCCTTCACCGGAGAGTGGGGCCTGGGCCGTGTCTGCTGGGAGCCATGTGTCAG
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4712/6881
# FIGURE 4344B

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GGCTGGTGGCTGGGTGTCAGGCAGCCCTGAGGCCATGCTGGCCCCGTCCCAGGCTCTGCACCAGCACCATTGCCC
AAGCCCCAGGGACGCCAGACCCATCTGGGGACAGCGCCCGGCGGCGTCGTGCAGGCCACAGTCTGGGCATTGGGG
CTCTGTGGGAGGCTCCTCTCTTTGCCTTGCAGTAGCCATCCGGGGGCTACTCTGAGCACGGGCTTGTTCTCACCC
AGGGCCGCTCCCCACCCCTGCACCCTGGGTTGACCGAGTTCCACCCTAACCCAGCCGTAAGAACCTTGGCAGGAC
AGTGGCTGGCCACATCCCAGGAAACCGGAACCAGGGCAAGGGCAGGAGGCCCAGAGGGCATCCACCGCGGTGCCG
TGTCGCGCTCTGACTCGGGGCTGCAGATCTGCTGTGGGTGTCCGGGGATCTGGGATCGTCTGTCCCAAGAGGGAC
ACAGCGTATTTGGCACAGTTAGGGAGTCCCCGGGCCCTTGGTGTGCTCACATCTGAGTGAATGCTGTTGTGGCCA
CAGGCGGCGGGAGTGGGGGTGCTGGATGGCCCAGCCCCTCTGGGGCTCCAGATCGGTAGGAGCGGGTGGCGTGGC
ACCAGGCATCCGAGTGTGACCCTCCTCCCTCTGCTCCCACCTGCAGGACGGCCCACCTCCATGGAGACGGCCCAC
GGCCTCGCCACCACCAGCCCCACCTGGCCTCCACTTGGTGGCCCCAGCCCCGATCCCAGCGCCGCCGAGCTGACC
CCACTCTGAGAGCCTGGCCGAGCTGGCAGCATGGAGCCCTCGGCTCCCCAGACTTTGCCGAGGGGCTGCTCCGGA
CCCCGTTGTGAGCCGGCCTCCTGTCTGCATGCCCCCTGTGGCCACCAGGCTCCGAGGGGCCGTGGTGACTCTTGA
TCAAAGAGCACAGTGAACTGTCCCTTCTGAGTCTCCCTTTTCTACAGTTGATATATTTGTAACTGGTACAAGATG
AAGGACAGCAGCTTTCCATCCCTAGTTCAGAGCCCCGTTCCCCAGGGTCCTGTGGGCTGAGCGGCTGGGGCTGG
GGCTGCCCACGTGTGGCCTCCGCTGGCTCTGCCTGCTCCTGCAACAGTGCGGTCCCTGCCCGGAGAACTCAGGAG
GCCTGCAGAAGAGAACTGATTGGTGGTCGAAGCACCATCTTCACAGATGTTCAGGGGCAGTGGGGGGCTCCAGGC
ACGGTCAATGAAGGAAACAGTGCCTGTCCACCCACCCTGCGTGTCACTGTGGCGGCCTGGCTGTCGCTGCTTTTT
GTCCTCTGCCGTGTTTGCGCGGCCTCAGTGCCCTCCCTGGTGCGTCTGCGCTGGGGCCCTCAGTGCTCGGGGCCT
TGGGGTGCATGGGTGCCGCCCTGGGCAGCTAGAGTGTCTCAGCCCGGTGCTGGGCCTGGCCGAGGGGCGGAGGCA
CAGCTGCTTCCAGCAGCCAGCATTCAGTGGCCTTGTCACCAAGCTCCACACCTCCTCCTGGTGCTGGCTTTGGTG
ACATCACAAGGCCCCTCCAGGTGCAGGGGCTTCTGTTTGGCAGGCCCCTGCCAGGGAGGACCTGGTGGCCTCCTC
ATTCTCTTTTGCCATTGGAATGTCCCCTTGCAGTTCTCTTCTCTTTTTTTTTTTTTTTGAGATGGAGTTTCACTC
TTGCTGCCCAGGCTGGAGTGCAGTGGCTCAATCTCGGGTCACTGCAACCTCCGCCTCCCGGGTTCAAGTGATCGT
CCTGCCTTAGGCTCCTGAGTAGCTGGGGATTACAGGTGCCTACCAGCATGCTCGGCTAATTTTTTTGTATTTTTA
GTAGAGAAGGGATTTCACCATGTTGGCCGGGCTGGTCTCAAACTCCTAAGGTCATCCACCTGCCTCGGCCTCCCA
GAGTGCTGAGATTACAGGCGTGAGCCTCCGCGCCCGGCCCCCTTGCAGTTCTCTCTGATTTGGTTTGTTCTGTCT
CAGGCTTCTGTGGCAGGACTGGCCCAGGGAGGAGGAAGCCAGCAGCACACCTGGGGAATGGGGTCCCGGCCGGGA
GGCTTGGCCTCTGGGCGACCTCGTCCTGTTTTTTTTGTTTGTTTGTTTGTTTTTTTAAAGGTAAACCTCCTGGGC
CGCAGATGGCAAAGGGAGTGCCTGGGCCTGGTGACCCAGGGCTGGATCCACCCCTGCGGAGCCCTGGGCCAGGCA
GGTGTCTGCTGCTCACCTGGCTCTGGAGGGCTGCCCTGCAGCTGGGCCTGGGGACAGGTCGGCTGTGGGGCAGCT
CAGTACCCTCCCTGAGGCTCACGGTGGCTCCGAGCATGAGGTCCGCCTCCTGGGCGAGACCCAGCAGTGGACAGC
ATGGTCCTCACACCCAGCTCCCTGCACACCCAGGCCAGCCACCCCTCCCGCTCGTGCACAGGCACGCAGATGCGC
TCACACGTACACACACACAAATGCACGCCCACTTGCACATGCTCACGCACATGTTCACACATGCACACTCACGCT
CACACATGCTGTCACGCATACACACACGCACATACTCCTGCACATGTTCCCATGCATGTGTGTGCACTCGGACCG
AGCATCTCCCACGCACCTCTACCCCACCCCAAGCACCTCTCTCCCCCATGCACCTCTCCCCAACAACACACACA
GCCCCCTGCACCGCCCGCCCCCGCCCCCACCAAGGCCCCAGCCTCTGGCCATCAGTCCTGGTGCCAGAGCTTTG
CGTGAAGTTCGGGCCGCAGAGTGGCCCGCTGGGACTCCCATGTGCTGCCGTCTGATGTGCTCAGATGGGCTCATC
GTTGGTTCGTTTTTACTGTATATTTATAGTAATAAAATCATGCAGC
```

## FIGURE 4345

MGSILSRRIAGVEDIDIQANSAYRYPPKSGNYFASHFFMGGEKFDTPHPEGYLFGENMDLNFLGSRPVQFPYVTP
APHEPVKTLRSLVNIRKDSLRLVRYKDDADSPTEDGDKPRVLYSLEFTFDADARVAITIYCQASEEFLNGRAVYS
PKSPSLQSETVHYKRGVSQQFSLPSFKIDFSEWKDDELNFDLDRGVFPVVIQAVVDEGDVVEVTGHAHVLLAAFE
KHMDGSFSVKPLKQKQIVDRVSYLLQEIYGIENKNNQETKPSDDENSDNSNECVVCLSDLRDTLILPCRHLCLCT
SCADTLRYQANNCPICRLFPGPPADPGGAEEARSPVPRVLQPRPGPEPGA

# FIGURE 4346

AGACGCCGGGGGCGGACGGGAGGACCGGAGGACCGAGGACAGAAAGATTGGTGGACAGGAGCAGCGGCCGGTGGG
GAGGGCGCTCGGCGGCGGCCTGCGGCC**ATG**GCCACCGTGATGGCAGCGACGGCGGCGGAGCGGGCGGTGCTGGAG
GAGGAGTTCCGCTGGCTGCTGCACGACGAGGTGCACGCTGTGTTGAAGCAGCTGCAGGACATCCTCAAGGAGGCC
TCTCTGCGCTTCACTCTGCCGGGCTCCGGCACTGAGGGGCCCGCCAAGCAAGAGAACTTCATCCTAGGCAGCTGT
GGCACAGACCAGGTGAAGGGTGTGCTGACTCTGCAGGGGGATGCCCTCAGCCAGGCGGATGTGAACCTGAAGATG
CCCCGGAACAACCAGCTGCTGCACTTCGCCTTCCGGGAGGACAAGCAGTGGAAGCTGCAGCAGATCCAGGATGCC
AGAAACCATGTGAGCCAAGCCATTTACCTGCTTACCAGCCGGGACCAGAGCTACCAGTTCAAGACGGGCGCTGAG
GTCCTCAAGCTGATGGACGCAGTGATGCTGCAGCTGACCAGAGCCCGAAACCGGCTCACCACCCCCGCCACCCTC
ACCCTCCCCGAGATCGCCGCCAGCGGCCTCACGCGGATGTTCGCCCCTGCCCTGCCGTCCGACCTGCTGGTCAAC
GTCTACATCAACCTCAACAAGCTCTGCCTCACGGTGTACCAGCTGCATGCCCTGCAGCCCAACTCCACCAAGAAC
TTCCGCCCAGCTGGGGGCGCGGTGCTGCATAGCCCTGGGGCCATGTTCGAGTGGGGCTCTCAGCGCCTGGAGGTG
AGCCACGTGCACAAAGTGGAGTGCGTGATCCCCTGGCTCAACGACGCCCTGGTCTACTTCACCGTCTCCCTGCAG
CTCTGCCAGCAGCTCAAGGACAAGATCTCCGTGTTCTCCAGCTACTGGAGCTACAGACCCTTC**TGA**TCACAGCAC
CCAGGAGCTTGTCTCCAGGAAGGCGGCCCCGTCCCCTACTCATACCCACCACAGAGCACCAGCCAGTGCCAACGC
CAGGCTGCTATTTATCTCCCTATCCCACCCCCTACCCCACCTAACACATTTGCACTGCCAGGAATGGACACTGGA
AGTGCCAGGAGGAAGGAAGGCTGGTTTGGTGGGGTAGTGGGGAGGTCAGGGAGGCGGGGCCAAGGGTGTCCCACA
TTCCCAACACCGCCCTCTGATCACCATGGGAATCTTTGGACTCAGGACAGGGCCAGGTGCAGGGCTCTCCCTCCT
CTCCCCTTCGCTGTCCCCTCCCCCTGGAGGGCATGGTGTCGGGGGGTGGCACTGAGCTATGAGTCCCGGGGATGG
TGAGGAACGCCACAGACAGAGCCACCCTAGGAGTGAGTATAGTGCTGGTGACTGTGTTTCATAGCCCCAGTCCAG
GGCTGTCTAAGAAATAAAGATCATCAGACTCCAAAAAAAAAAAAAAAAA

4715/6881
# FIGURE 4347

MATVMAATAAERAVLEEEFRWLLHDEVHAVLKQLQDILKEASLRFTLPGSGTEGPAKQENFILGSCGTDQVKGVL
TLQGDALSQADVNLKMPRNNQLLHFAFREDKQWKLQQIQDARNHVSQAIYLLTSRDQSYQFKTGAEVLKLMDAVM
LQLTRARNRLTTPATLTLPEIAASGLTRMFAPALPSDLLVNVYINLNKLCLTVYQLHALQPNSTKNFRPAGGAVL
HSPGAMFEWGSQRLEVSHVHKVECVIPWLNDALVYFTVSLQLCQQLKDKISVFSSYWSYRPF

4716/6881
# FIGURE 4348

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GTCATGGCGCCCGAGGAGAACGCGGGGACCGAACTCTTGCTGCAGAGTTTCGAGCGCCGCTTCCTGGCGGCACGC
ACACTGCGCTCCTTCCCCTGGCAGAGCTTAGAAGCAAAGTTAAGAGACTCATCAGATTCTGAGCTGCTGCGGGAT
ATTTTGCACAAGACTGTGAAGCATCCTGTGTGTGTGAAGCACCCGCCGTCCGTCAAATATGCCCGGTGCTTTCTC
TCAGAACTCATCAAAAAGCACGAGGCTGTCCACACAGAGCCTTTGGACGAGCTGTATGAAGCGCTGGCGGAGACC
CTGATGGCCAAGGAGTCCACCCAGGGCCACCGGAGCTATTTGCTGCCCTCGGGAGGCTCGGTCACACTCTCCGAG
AGCACGGCCATCATCTCCTACGGTACCACAGGCCTGGTCACATGGGACGCCGCCCTCTACCTTGCAGAATGGGCC
ATCGAGAACCCGGCAGTCTTCACTAACAGGACTGTCCTAGAGCTTGGCAGTGGTGCTGGCCTCACAGGCCTGGCC
ATCTGCAAGATGTGCCGCCCCGGGCATACATCTTCAGCGACTGTCACAGCCGGGTCCTTGAGCAGCTCCGAGGG
AATGTCCTTCTCAATGGCCTCTCATTAGAGGCAGACATCACTGCCAAGTTAGACAGCCCCAGGGTGACAGTGGCC
CAGCTGGACTGGGACGTCGCGACGGTCCATCAGCTCTCTGCCTTCCAGCCAGATGTTGTCATTGCAGCAGATGTG
CTGTATTGCCCAGAAGCCATCATGTCGCTGGTCGGGGTCCTGCGGAGGCTGGCTGCCTGCCGGGAGCACCAGCGG
GCTCCTGAGGTCTACGTGGCCTTTACCGTCCGCAACCCAGAGACGTGCCAGCTGTTCACCACCGAGCTAGGCCGG
GCCGGGATCAGATGGGAAGTGGAACCTCGTCATGAGCAGAAACTGTTTCCCTACGAAGAGCACTTGGAGATGGCA
ATGCTGAATCTCACCCTGTAGGACTCACACACGACTCCAACGGGATTGTGAGAATCAAGTCACTCTCATGGGAAG
AATTTTTATATGGGAAAGCGGATAAAACTTTCATTGGACTGGAATGTTTGGAGAATGTTAATTTCCAAATCAGGA
ACCACAAACTGCCCTCTAATAAGACATCGGCTATCTAAGCGTGTGGGTGCCCCCTTTCTGCCAGCAGTTCTGGTT
CTTAAGAAAATCACCATAAATCAGACATGAAAATTCTGGCTCCAAAAATAGCATTTTCTTTGTGCAAATAAAAAC
GTGTGTATCAAGTATGATGTTCCCCCAACGTGGACACACTCAGTTCCTCACAAAGCCAAGCCCACTGCAGCTGCC
ACATCCCTGGGCTTACGGTGCAGCAGGTGCTTTTTTCAAGACAGGAATCAAAATGTTAGGAACACGGCAGAAAGG
GGACACCTGGAGACCAAACGCAGGATGAGGAGTTCTGCAGAGGTCACAGGGAAGTCACAGAACAGTAATACGCTA
GCAGGGGCATGGGGCGTGAAGAACAGAAGAAGAGAGGAAGCGTTTCCAAGCCTCCAGAGAAGAAATCAAGGCCAA
CCAAAGCTTCCCGGGTCACAGAACCAATTCTTTTACCAGGCAGTACCACTGCTGTCATTTCAGCTTCTGGCCACT
GGGAGGTGCTGCTCGAAAGGGTTTGCCCTGAGACTCCAAGAAGAAGCTGCGGGAAGGACAGCAGGGGTCCTGGGG
TTTTAGCCTCTGGCCCAGGAGTTATGTGTCCATAACCAAAGGGAGCACAGTCTGCACCCAGCTCTCATCCCATCG
GAGCTGCTGCGACTCCCGCAGGTTCTTCCGGAACTGGTTTAGCTTGCCCGCAGGATCAGGAAAGTTTGAGAAAAG
CATCTGCAAAAAAATAAAGAGCAGAGCTTACCTC
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4717/6881
# FIGURE 4349

MAPEENAGTELLLQSFERRFLAARTLRSFPWQSLEAKLRDSSDSELLRDILHKTVKHPVCVKHPPSVKYARCFLS
ELIKKHEAVHTEPLDELYEALAETLMAKESTQGHRSYLLPSGGSVTLSESTAIISYGTTGLVTWDAALYLAEWAI
ENPAVFTNRTVLELGSGAGLTGLAICKMCRPRAYIFSDCHSRVLEQLRGNVLLNGLSLEADITAKLDSPRVTVAQ
LDWDVATVHQLSAFQPDVVIAADVLYCPEAIMSLVGVLRRLAACREHQRAPEVYVAFTVRNPETCQLFTTELGRA
GIRWEVEPRHEQKLFPYEEHLEMAMLNLTL

# FIGURE 4350

GGCACGAGGGAGAGATCGTCCAGGAGGCGGTGTTGATGCGGCAAAGGGCAACAGGAAGGGCATTAGGACTTGAAA
TCGGAGACGCACGCAGGGGAGGGAGTCAGTGTCGGAACCTGGTAGGCCCTGGGAGAACTCCGGCTTTTCGTCTGC
GTGAGCTGGAGAAGAGCCGAAGGTTTCTGCGCACAGCACGGACCTGCGTGCCTCAGCTTTAAGGAAATCACCGTG
GCCGCCGCTGTGAACGCAGAGAAGGGCGCGAGCGTGGGAGCAGGAACCCAAGGCGGTGGGAAACGGTGGGGCTTT
CTGAGTGTATTGGAAAGTAGAGCCCACAGATCTGCTGCAGACCAGAAAGGGGCGCGAGAAAGAGCGGACAGAGGC
AGACGCCGGGGCTGGCGGCGATGGAGCAGCAGTCGGAGGACGCGGAAGGCCTGCGAGAGTCGCCCGCGGCCCAGC
GCCGGCCTTCGGGTCCCACCTTGCGGGTGATGTTGTGCACGTAGGGGCACGTGTTGCAGGCGAAGCGGTGGCAGC
GTTGTCCCTCCTCCACGATCAGCCCGTTCCCGCAGCCGGGGCAGAACAGCAGCATGGTCTCGAACTCCGCAGGCT
CCAACTCCCGGCAGCTCCCACTGCCGCTCAGCGCCGATGCGCCGCCCGCCTCGAGCTCACATTGGTCCTGGCAGC
CTTCCCGCCACACCAACCAACCAATAGACAGGGCGATTCTGCGCTCCCGGCCCTGCTGCAGGCTGTCTCGCACTT-
GTCATTGGTCACTGCAGCCGCCCCACCCCCCCCGGCGCGCCAGTGGCTGGGCGGCCTCGCTGGGGCGGGCCGCAG
TTCCTGCGCGTGCGCGCTTGGCCTCCCTAGTGCGGGCTGGCAGTGCGGGCAGAGCCCGGCTGAGAGGGGCGGCCC
TGGAGGAGACGGAGGCCGCGGGTGGGCCCGAGGCGCAAGAGGAAGATGAGGACGAAGAAGAGGCGCTGCCGCACT
CCGAGGCC**ATG**GACGTGTTCCAGGAGGGTCTGGCTATGGTGGTGCAGGACCCGCTGCTCTGCGATCTGCCGATCC
AGGTTACTCTGGAAGAAGTCAACTCCCAAATAGCCCTAGAATACGGCCAGGCAATGACGGTCCGAGTGTGCAAGA
TGGATGGAGAAGTAATGCCCGTGGTTGTAGTGCAGAGTGCCACAGTCCTGGACCTGAAGAAGGCCATCCAGAGAT
ACGTGCAGCTCAAGCAGGAGCGTGAAGGGGGCATTCAGCACATCAGCTGGTCCTACGTGTGGAGGACGTACCATC
TGACCTCTGCAGGAGAGAAACTCACGGAAGACAGAAAGAAGCTCCGAGACTACGGCATCCGGAATCGAGACGAGG
TTTCCTTCATCAAAAAGCTGAGGCAAAAG**TGA**GCCTCCAGACAGGACAACCCTCTTCATCACTGGTGGCTGAGCT
TTTTCCCAGCAGGAATGGGTCCTCGAATCATCGTGCCTCTTTCACAGAAAGGACGTTGTGGTGGCCTCACCCCAG
GCATGCCCAACAGTAACTGTCAGCATAAACCTGGGGGCCCTCAGGACTAGGACAGGGTGAGCCAGTGCTCCCTCC
TTTCATGTACTTGGCCTGAGACTGACCTCTCCCTAGGTCCAAATGCCCTAGTCACATGGCAGACCCACGGCCTGG
CCCACTGTATAAAATAAACCTGTTTGCTTCTTAAAAAAAAAAAAAAAAAAAAAAAA

4719/6881
# FIGURE 4351

MDVFQEGLAMVVQDPLLCDLPIQVTLEEVNSQIALEYGQAMTVRVCKMDGEVMPVVVVQSATVLDLKKAIQRYVQ
LKQEREGGIQHISWSYVWRTYHLTSAGEKLTEDRKKLRDYGIRNRDEVSFIKKLRQK

4720/6881
## FIGURE 4352

CCTGGGCCCCCATGCCGTGCAGCTCGCACATATGTGGGGCAGAGCAGCCACCCTGCCCCCAGCAGCAGCCGTCCA
TCGTCAGACGTGATCATTTCCTGAGGCCTCGAGTGTGTCAGGGTGTTTGTGCCTCATAACAACCCACAGGATGGT
CACCCCCGCTTTGCAGATGAAGAAACCAAAGCAGTTTTGCCGACGGATGGGGCAAAAGAAGCAGCGACCAGCTAG
AGCAGGGCAGCCACACAGCTCGTCCGACGCAGCCCAGGCACCTGCAGAGCAGCCACACAGCTCGTCCGATGCAGC
CCAGGCACCTTGCCCCAGGGAGCGCTGCTTGGGACCGCCCACCACTCCGGGCCCATACCGCAGCATCTATTTCTC
AAGCCCAAAGGGCCACCTTACCCGACTGGGGTTGGAGTTCTTCGACCAGCCGGCAGTCCCCCTGGCCCGGGCATT
TCTGGGACAGGTCCTAGTCCGGCGACTTCCTAATGGCACAGAACTCCGAGGCCGCATCGTGGAGACCGAGGCATA
CCTGGGGCCAGAGGATGAAGCCGCCCACTCAAGGGGTGGCCGGCAGACCCCCCGCAACCGAGGCATGTTCATGAA
GCCGGGGACCCTGTACGTGTACATCATTTACGGCATGTACTTCTGCATGAACATCTCCAGCCAGGGGGACGGGGC
TTGCGTCTTGCTGCGAGCACTGGAGCCCCTGGAAGGTCTGGAGACCATGCGTCAGCTTCGCAGCACCCTCCGGAA
AGGCACCGCCAGCCGTGTCCTCAAGGACCGCGAGCTCTGCAGTGGCCCCTCCAAGCTGTGCCAGGCCCTGGCCAT
CAACAAGAGCTTTGACCAGAGGGACCTGGCACAGGATGAAGCTGTATGGCTGGAGCGTGGTCCCCTGGAGCCCAG
TGAGCCGGCTGTAGTGGCAGCAGCCCGGGTGGGCGTCGGCCATGCAGGGGAGTGGGCCCGGAAACCCCTCCGCTT
CTATGTCCGGGGCAGCCCCTGGGTCAGTGTGGTCGACAGAGTGGCTGAGCAGGACACACAGGCCTGAGCAAAGGG
CCTGCCCAGACAAGATTTTTTAATTGTTTAAAAACCGAATAAATGTTTTATTTCTAG

# FIGURE 4353

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TTCCCATCCGCACCAGCAAGAGGGGCCCCTGTGCCCCAAACGCGAACCGTACGGCTCCAGACAGCACCGCGGAAC
TCGGTGGCTTCCAGAAGGCCCCGCGCCTGCGCATTCCGCTGCCTGCGCCTGCGCCTGCGCCGTTCTCCC
GGCCGCCGCCTTAGCACCTCCTCCGGACGGTGTCGCCGAAGTCTCGCGAGCCCGGAGCGTGGCACGTGGGCCCCC
TCCGCCTCCGGCTCCGTCCTCCTCTGGCCCCCTCCGCCCCCGGCCCCGGCCCCACGGCGGGATGCGGGACAACAC
CAGCCCCATCAGCGTGATTCTGGTGAGCTCGGGGAGCAGGGGCAATAAGCTGCTGTTCAGGTACCCCTTCCAGAG
AAGCCAGGAGCACCCGGCGTCCCAGACAAGTAAGCCGCGTAGCAGATACGCTGCCAGCAACACGGGCGACCATGC
TGATGAGCAGGACGGCGATTCCAGGTTTTCAGATGTTATTCTGGCAACAATTTTGGCAACCAAGTCTGAAATGTG
TGGCCAAAAATTTGAACTGAAGATTGATAATGTGCGATTTGTTGGGCACCCAACACTGCTACAGCATGCTCTGGG
GCAGATCTCCAAAACAGATCCTTCCCCGAAGAGGGAAGCACCTACTATGATTCTTTTTAATGTGGTGTTTGCACT
GAGGGCCAACGCAGACCCGTCAGTGATAAACTGTCTGCATAACCTGTCCCGTCGTATCGCCACCGTGCTGCAGCA
CGAGGAGCGCCGCTGCCAGTACCTCACCCGGGAGGCCAAGCTGATCCTGGCGCTCCAGGATGAGGTGTCCGCCAT
GGCTGATGGAAATGAAGGTCCTCAGTCCCCATTCCATCACATCCTGCCCAAGTGCAAGCTGGCCAGGGACCTCAA
GGAAGCTTATGACAGCCTGTGCACGTCGGGCGTAGTTCGGCTTCACATCAACAGCTGGCTGGAGGTGAGCTTCTG
CCTGCCCCACAAGATCCACTATGCGGCCTCCAGTCTGATCCCCCCAGAGGCCATCGAACGGAGCCTGAAAGCCAT
CCGCCCCTACCATGCCCTGCTGCTGCTCAGTGATGAGAAGTCCTTGCTGGGTGAGCTTCCTATTGACTGCTCCCC
TGCCCTAGTGCGGGTGATCAAGACCACATCTGCTGTGAAGAACCTGCAGCAGCTAGCCCAAGATGCGGACCTGGC
CTTGCTGCAGGTTTTCCAGCTTGCAGCTCATCTGGTGTACTGGGGCAAGGCCATCATCATCTACCCGCTGTGTGA
GAACAACGTCTACATGCTGTCTCCCAATGCCAGCGTATGTCTGTACTCCCCGCTGGCCGAGCAGTTCTCCCACCA
GTTCCCATCTCATGACCTGCCGTCCGTTCTTGCCAAGTTCTCCTTGCCGGTCTCCTTGTCAGAATTTAGGAATCC
CCTGGCCCCCGCTGTGCAGGAGACCCAGCTCATCCAGATGGTGGTGTGGATGCTGCAGCGCCGGCTTCTCATCCA
GCTGCACACCTATGTCTGCCTGATGGCCTCACCCAGCGAGGAGGAGCCCCGTCCGCGAGAGGACGACGTCCCCTT
CACTGCCCGGGTCGGCGGTCGCAGCCTCAGCACGCCCAACGCCCTCAGCTTTGGCTCCCCAACCAGCAGCGATGA
CATGACCCTCACCAGCCCCAGCATGGACAACTCCAGCGCAGAGCTACTTCCCAGCGGGGACTCGCCACTGAACCA
GAGGATGACGGAGAACCTGCTGGCCAGCTGTCGGAGCATGAACGCGCAGCCATCCTCAGTGTACCCGCAGCCCAG
AACCCTGAGGACCTCCGCATGTTTGCCAGGCTCCTTCACTACTTCCGCGGCCGCCACCACCTGGAGGAGATTATG
TACAACGAGAACACGCGGCGCTCCCAGCTGCTCATGCTGTTTGACAAGTTCCGCAGCGTGCTGGTGGTGACCACC
CACGAGGACCCTGTCATTGCCGTCTTCCAGGCTCTGCTCCCCTGAGCCCAGGCGGAGGGCGGAAGGCTGCTGGGG
TGCGCAGGTGGGCGCTCGCGTCTCCCCACCCCAGGGCTCCCCCCGTGCTGAGGCTGAGCCCTCTTGGCCCTGAGG
CCTGGCATTGGGTGGATGCGGGCTGGCCGTGGCCCAGTGAAGCCTGCAGAGCCCCGCTGTCCTTGCCCCTGGTGG
TTCCGCTGTGGGGCTGCTGCCCTCTGTGTTCCTACGCTTCCCTCCAGTCCTTGCCGCACGCGTAGGCATCTCCAC
GCTGGAGGGGGGCCTGCCAGGACTCCTGTCTCTGGGTGAGGCCGCATCCTTCAAGGCCCATGTGGGCTGTGCGTT
TCTCAGACCCTCCTTCTGTCCCTACACCTGCTCCTTGGACCCCCCAGTCTGTGGCCACCCTGAAGAATGTGCAGA
AACACTTGTGTGGCCTGTCCCTGTCTCTCTGACAGCCTTCTATTTGTGAAGTGCCCTGTGGCCCCCTCCCCAGCA
CCTCTGTCTGCCATGCGCTTCTTCCTCCCAGGCTACCCTGAGCCTTTCCTGGCCCAGTCCTCACCACAGTCCACA
GAAGCCGCAAACAGGCTCATAGCCAAGCTGTGACCTGGTCCTGACCATCTGGGGCACGAGGGCCTGGGCTGGCCC
TGCTAGGCTGGAGAAGCCCTGTCACCTGTGCACATCTTGCTGGTGGAGGCATGGCCCACTGTGCAGGACCCCACC
CTCGGGGGCTTTCGGCTCCCACACTGATGATTCTCCCCAGCATCCACACCGGGCCTGGCGCTACGTACTCAGGCC
CCCAGCTCTCGTGTCCTGGAGGAAGAGCTAGCTCCAGACATGGGTTGATCACCTAGAGGAGCTCTGGCTAAGGCA
CAGTTTTCTAGAAATAAAACATTTATTCGGTTTGGAAAGGCCCCTTGGATTCCTGGCTGGGGACAATGATGACCT
GGACCCTGGCCAGAAGAGCCCTGGCCCTCCAGCAAGGCAGCACCTGCTCTGATGCACCTGTGCACCCCTGGCCCT
CCCAGCCACCTGGGAGTCCGAAGCTTAGCCTGGAGGTGGCCAAGCCAGTCCCTACTCTTGGGCTGCGGCCACGTG
AGGCTCCGCATCAGCAGCCAGGGGCGAGCACTAGTGGACAAAGCCAGCAAATGCGGCGTTCCTGTGAGCAGATAC
CCTCAACCAGCCAGCTGTCAAAAGTATTTCAAGATAAAATCCAGGCCAAGC
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4722/6881
# FIGURE 4354

ACTCTTCTGGTCCCCACAGACTCAGAGAGAACCCACC**ATG**GTGCTGTCTCCTGCCGACAAGACCAACGTCAAGGC
CGCCTGGGGTAAGGTCGGCGCGCACGCTGGCGAGTATGGTGCGGAGGCCCTGGAGAGGATGTTCCTGTCCTTCCC
CACCACCAAGACCTACTTCCCGCACTTCGACCTGAGCCACGGCTCTGCCCAGGTTAAGGGCCACGGCAAGAAGGT
GGCCGACGCGCTGACCAACGCCGTGGCGCACGTGGACGACATGCCCAACGCGCTGTCCGCCCTGAGCGACCTGCA
CGCGCACAAGCTTCGGGTGGACCCGGTCAACTTCAAGCTCCTAAGCCACTGCCTGCTGGTGACCCTGGCCGCCCA
CCTCCCCGCCGAGTTCACCCCTGCGGTGCACGCCTCCCTGGACAAGTTCCTGGCTTCTGTGAGCACCGTGCTGAC
CTCCAAATACCGT**TAA**GCTGGAGCCTCGGTAGCCGTTCCTCCTGCCCGCTGGGCCTCCCAACGGGCCCTCCTCCC
CTCCTTGCACCGGCCCTTCCTGGTCTTTGAATAAAGTCTGAGTGGGCGGC

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# FIGURE 4355

MVLSPADKTNVKAAWGKVGAHAGEYGAEALERMFLSFPTTKTYFPHFDLSHGSAQVKGHGKKVADALTNAVAHVD
DMPNALSALSDLHAHKLRVDPVNFKLLSHCLLVTLAAHLPAEFTPAVHASLDKFLASVSTVLTSKYR

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## FIGURE 4356

ACTCTTCTGGTCCCCACAGACTCAGAGAGAACCCACC**ATG**GTGCTGTCTCCTGCCGACAAGACCAACGTCAAGGC
CGCCTGGGGTAAGGTCGGCGCGCACGCTGGCGAGTATGGTGCGGAGGCCCTGGAGAGGATGTTCCTGTCCTTCCC
CACCACCAAGACCTACTTCCCGCACTTCGACCTGAGCCACGGCTCTGCCCAGGTTAAGGGCCACGGCAAGAAGGT
GGCCGACGCGCTGACCAACGCCGTGGCGCACGTGGACGACATGCCCAACGCGCTGTCCGCCCTGAGCGACCTGCA
CGCGCACAAGCTTCGGGTGGACCCGGTCAACTTCAAGCTCCTAAGCCACTGCCTGCTGGTGACCCTGGCCGCCCA
CCTCCCCGCCGAGTTCACCCCTGCGGTGCACGCCTCCCTGGACAAGTTCCTGGCTTCTGTGAGCACCGTGCTGAC
CTCCAAATACCGT**TAA**GCTGGAGCCTCGGTGGCCATGCTTCTTGCCCCTTGGGCCTCCCCCCAGCCCCTCCTCCC
CTTCCTGCACCCGTACCCCCGTGGTCTTTGAATAAAGTCTGAGTGGGCGGC

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# FIGURE 4357

MVLSPADKTNVKAAWGKVGAHAGEYGAEALERMFLSFPTTKTYFPHFDLSHGSAQVKGHGKKVADALTNAVAHVD
DMPNALSALSDLHAHKLRVDPVNFKLLSHCLLVTLAAHLPAEFTPAVHASLDKFLASVSTVLTSKYR

4726/6881
## FIGURE 4358

CCGACGCGACCATCGTTTGTCGACGCCGCTGCCACCGCCTGCCTGAGAGAAGTCGTCGCGGCCGACCCCGTCGCC
TCCGCCGGCTACC<u>ATG</u>TCCGCCCAGGCGCAGATGCGGGCCCTGCTGGACCAGCTCATGGGCACGGCTCGGGACGG
AGACGAAACCAGACAGAGGGTCAAGTTTACAGATGACCGTGTCTGCAAGAGTCACCTTCTGGACTGCTGCCCCCA
TGACATCCTGGCTGGGACGCGCATGGATTTAGGAGAATGTACCAAAATCCACGACTTGGCCCTCCGAGCAGATTA
TGAGATTGCAAGTAAAGAAAGAGACCTGTTTTTTGAATTAGATGCAATGGATCACTTGGAGTCCTTTATTGCTGA
ATGTGATCGGAGAACTGAGCTCGCCAAGAAGCGGCTGGCAGAAACACAGGAGGAAATCAGTGCGGAAGTTTCTGC
AAAGGCAGAAAAAGTACATGAGTTAAATGAAGAAATAGGAAAACTCCTTGCTAAAGCCGAACAGCTAGGGGCTGA
AGGTAATGTGGATGAATCCCAGAAGATTCTTATGGAAGTGGAAAAAGTTCGTGCGAAGAAAAAAGAAGCTGAGGA
AGAATACAGAAATTCCATGCCTGCATCCAGTTTTCAGCAGCAAAAGCTGCGTGTCTGCGAGGTCTGTTCAGCCTA
CCTTGGTCTCCATGACAATGACCGTCGCCTGGCAGACCACTTCGGTGGCAAGTTACACTTGGGGTTCATTCAGAT
CCGAGAGAAGCTTGATCAGTTGAGGAAAACTGTCGCTGAAAAGCAGGAGAAGAGAAATCAGGATCGCTTGAGGAG
GAGAGAGGAGAGGGAACGGGAGGAGCGTCTGAGCAGGAGGTCGGGATCAAGAACCAGAGATCGCAGGAGGTCACG
CTCCCGGGATCGGCGTCGGAGGCGGTCAAGATCTACCTCCCGAGAGCGACGGAAATTGTCCCGGTCCCGGTCCCG
AGATAGACATCGGCGCCACCGCAGCCGTTCCCGGAGCCACAGCCGGGGACATCGTCGGGCTTCCCGGGACCGAAG
TGCGAAATACAAG<u>TAA</u>CTACTCTGACTCCTTCGGTAGCTGCAACCAGGAGTGAGCCCTTCTCTGTGTTCCCAGGG
TCTGCTGAGGGCCGTGTCTGGTGGGGATGGGGCTGGGCTCACCCTCAGGAGTAGGGCTGGGGAGTCGTGAACGGG
ACTCAGGTGTGGGAAGAGGCGAGAGGGCTGTGGAGGAGCTCGCACGGCGCCAGGTGATGGGCTGCACAGGCACTG
TCCCCTGCCTGCGTCCTGGGGCCTGTGCACTGTTGCGTCCATGCTCAGAGTGGCTGAGACTTGTGTCCTGACCAG
GCCCTGCTTACCTCTGTTTTGGTTTTTGTTTTTGATATTTTTTTTTCCATTGTGTTTTTACGTAGTGTCATGTTC
TGTGCATATAGTGTTGTATTCTCCTTTGCACTGTTTATGTTACAGTGAAGGCTCTCCTTATTAAAAATCTTCGCA
AAGGTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

4727/6881
# FIGURE 4359

MSAQAQMRALLDQLMGTARDGDETRQRVKFTDDRVCKSHLLDCCPHDILAGTRMDLGECTKIHDLALRADYEIAS
KERDLFFELDAMDHLESFIAECDRRTELAKKRLAETQEEISAEVSAKAEKVHELNEEIGKLLAKAEQLGAEGNVD
ESQKILMEVEKVRAKKKEAEEEYRNSMPASSFQQQKLRVCEVCSAYLGLHDNDRRLADHFGGKLHLGFIQIREKL
DQLRKTVAEKQEKRNQDRLRRREEREREEERLSRRSGSRTRDRRRSRSRDRRRRRSRSTSRERRKLSRSRSRDRHR
RHRSRSRSHSRGHRRASRDRSAKYK

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# FIGURE 4360

AGCGGCGAGGGCTGGATCCTGGGCCAAATATATGCCAACAACGACAAGCTCTCCAAGAGGCTGAAGAAAGTGTGG
AAGCCACAGCTGTTTGAGCGAGAGTTCTACAGTGAGATCCTGGACAAGAAGTTCACAGTGACTGTGACCATGCGG
ACCCTGGACCTCATCGATGAGGCTTACGGGCTCGACTTTTACATCCTCAAGACCCCGAAGGAGGACCTGTGCTCC
AAGTTTGGGATGGAGCTGAAGCGAGGGATGCTGCTGCGGCTTGCCCGGCAGGACCCCCAGCTGCACCCCGAGGAC
CCCGAGCGGCGGGCAGCCATCTACGACAAGTACAAGGAATTTGCCATCCCAGAGGAGGAGGCAGAGTGGGTGGGC
CTCACGCTGGAGGAGGCCATTGAGAAGCAGAGACTTTTGGAGGAGAAGGACCCTGTACCCCTGTTCAAGATCTAT
GTGGCGGAGCTGATCCAGCAGCTGCAGCAGCAGGCACTGTCAGAGCCGGCGGTGGTGCAGAAGACAGCCAGTGGC
CAGTGACCACACAGCTCCTCCATGCCTGACCAACAGGCCCAGCTTTCCCTGCCAGGCCCTTTGCACTGAGGACAC
AGATCCCGGGGAGCTGTGAGGGCCACCGGTGGGCAGTGGGTGGATCCTGGTTTCGTGTGCTGCCCATGCACCTTC
CAGCCCGGGGCCAGCTTGGCAGGGATCCCCAGGAGGCCTGGGCCGCCCAGAGGCTCCTCTCAGGCTGGGCCCCGA
CGTTTGCGGCAGTGTTCCTTGTCCCGTGGGGCCGGGAGCGAGTAAAGTCTGGGCCAGGC

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## FIGURE 4361

MRTLDLIDEAYGLDFYILKTPKEDLCSKFGMELKRGMLLRLARQDPQLHPEDPERRAAIYDKYKEFAIPEEEAEW
VGLTLEEAIEKQRLLEEKDPVPLFKIYVAELIQQLQQQALSEPAVVQKTASGQ

4730/6881
## FIGURE 4362A

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GCACCGCGGCTGAGGAGCGGGAGGCCGTCCGGGCAGCGCGGCCGGCGGCGAGAGGGGCCCCGCCGCTCTCCGGAG
GCAGAAGTTGTGGATCGGCCGGCGGGGGCGAGCGGGCCCGGGGGCCGGGGCCGCGCTGCCCGGGCCGCGAGGACG
AGGCGGCGCCGCCGGGCTGTGGAGGCAGCAGCCCAGACGCGGCACAGAGAGGGCCTGGGAGCTTGCTGCAGCTTC
AGACAGGGAGCCAGGATGGGAACCACGGACTGACCTGACCTGCGTCCTCGGGGCCACTGCACTGGGTGATTCACG
TGTGCCCAGGCCCTGAGGTGGGCCGGACCTGGGAGTGGCAGCCACACCCACTCGCCCGGGTCTATGGCCACGGTC
GGAGAGTGGTCCTGTGTGCGCTGCACCTTCCTGAACCCGGCCGGCCAGCGCCAGTGCTCCATCTGCGAGGCTCCC
CGGCACAAGCCCGACCTCAACCACATCCTGCGGCTCAGCGTGGAGGAGCAGAAATGGCCCTGCGCCCGCTGCACC
TTCCGCAACTTCCTGGGCAAGGAGGCCTGCGAGGTGTGCGGCTTCACCCCGGAGCCTGCGCCTGGGGCTGCCTTC
CTGCCAGTCCTCAACGGGGTCCTCCCCAAGCCACCCGCCATCCTGGGGGAGCCCAAGGGCAGCTGCCAGGAGGAA
GCAGGTCCAGTGAGGACTGCGGGGCTGGTGGCCACGGAGCCCGCCAGGGGGCAGTGCGAGGACAAGGACGAGGAG
GAGAAGGAGGAGCAGGAGGAGGAGGAGGGAGCGGCGGAGCCCAGAGGGGGCTGGGCGTGTCCGCGTTGCACGCTG
CACAACACGCCCGTGGCCAGCTCCTGCTCCGTCTGCGGGGGCCCACGCAGGCTCTCGCTGCCACGGATCCCTCCT
GAGGCCCTGGTGGTCCCGGAAGTGGTGGCCCCGGCCGGCTTCCACGTCGTGCCTGCCGCGCCTCCACCTGGCCTC
CCCGGGGAAGGTGCCGAGGCCAACCCCCCAGCCACCAGCCAGGGCCCAGCTGCCGAACCAGAGCCGCCCAGGGTC
CCGCCCTTCAGCCCCTTCTCGTCCACCCTGCAGAACAACCCCGTGCCGCGCAGCCGACGCGAGGTTCCCCCCCAG
CTGCAGCCACCGGTGCCTGAGGCTGCCCAGCCGTCACCCTCTGCCGGCTGCAGGGGAGCCCCCCAGGGCTCGGGC
TGGGCTGGGGCCTCCCGCCTAGCAGAGTTGCTGTCTGGCAAGCGGCTGAGTGTGCTGGAGGAAGAGGCCACGGAG
GGTGGCACCAGCCGCGTAGAGGCCGGCAGCTCCACCTCGGGCAGTGACATCATTGACCTGGCCGGAGACACCGTG
CGTTACACGCCCGCCAGCCCCTCCAGCCCCGACTTCACCACCTGGTCATGTGCCAAGTGCACGCTCAGAAACCCC
ACAGTGGCCCCCAGGTGCTCGGCCTGCGGCTGCTCCAAACTGCACGGCTTCCAGGAGCATGGCGAGCCCCCCACC
CACTGCCCCGACTGTGGGGCCGACAAGCCCAGCCCCTGCGGCAGAAGCTGCGGACGGGTGTCCTCGGCCCAGAAG
GCCGCCCGCGTCCTGCCCGAGCGCCCGGGCCAGTGGGCCTGCCCTGCCTGTACCCTGCTCAACGCACTGCGGGCC
AAGCACTGCGCCGCCTGCCACACGCCTCAGCTCCTGGTGGCCCAGCGGCGGGGGGCCGCGCCCCTGAGGCGCAGG
GAGAGCATGCACGTGGAGCAGCGGCGGCAGACAGACGAGGGCGAGGCCAAGGCACTCTGGGAGAACATCGTGGCC
TTCTGCCGGGAGAACAATGTGAGCTTCGTGGATGACAGCTTCCCTCCCGGGCCCGAGTCTGTCGGCTTCCCCGCG
GGTGACAGCGTGCAGCAGCGTGTGAGGCAGTGGCTGCGACCCCAGGAGATCAACTGCTCCGTCTTCAGGGACCAC
AGGGCCACGTGGTCTGTGTTCCACACACTGCGGCCCTCAGACATCCTGCAGGGGCTGCTGGGGAACTGCTGGTTC
CTGAGCGCCCTGGCGGTGCTGGCGGAGCGGCCGGACCTGGTGGAGCGGGTGATGGTCACGCGCAGCCTGTGTGCA
GAGGGCGCCTACCAGGTGCGGCTGTGCAAGGACGGCACGTGGACCACGGTGCTGGTGGACGACATGCTGCCCTGT
GATGAGGCCGGCTGCCTCCTCTTCTCACAGGCGCAGCGGAAGCAGCTGTGGGTGGCCCTCATCGAGAAGGCGCTG
GCCAAGCTGCACGGCTCCTACTTTGCGCTCCAGGCGGGCCGCGCCATCGAAGGCCTGGCCACGCTCACCGGCGCC
CCCTGTGAGAGCCTGGCGCTGCAGCTCAGCTCCACTAACCCCCGCGAGGAGCCCGTTGACACTGACCTCATCTGG
GCCAAAATGCTGAGTTCTAAGGAGGCTGGGTTCCTCATGGGTGCCTCCTGTGGCGGGGGCAACATGAAGGTGGAC
GATTCGGCCTACGAGAGCCTGGGCCTGCGCCCCCGGCATGCCTACTCCATCCTGGATGTCCGAGATGTCCAGGGC
ACCAGGCTTCTGCGGCTCCGAAACCCGTGGGGCCGTTTCTCCTGGAACGGCAGCTGGTCCGACGAGTGGCCACAC
TGGCCGGGGCACCTGCGTGGCGAGCTCATGCCGCACGGCAGCAGTGAGGGTGTCTTCTGGATGGAGTACGGCGAC
TTTGTCAGGTACTTCGACTCCGTGGACATCTGTAAGGTGCACTCGGACTGGCAGGAGGCGCGGGTGCAGGGCTGC
TTTCCCAGCTCGGCCAGCGCGCCCGTGGGGGTAACAGCGCTCACGGTGCTGGAGCGGGCCTCGCTGGAGTTCGCG
CTCTTCCAGGAGGGCAGCAGGCGCTCGGACGCCGTGGACAGCCACCTGCTGGACCTGTGCATCCTGGTGTTCCGG
GCCACGTTCGGCAGCGGCGGCCACCTCAGCCTGGGCCGCCTCCTGGCCCACAGTAAGCGCGCGGTCAAGAAGTTC
GTCAGCTGCGACGTCATGCTGGAGCCTGGCGAGTACGCTGTGGTGTGCTGCGCCTTCAACCACTGGGGGCCGCCC
CTGCCGGGCACCCCTGCCCCCCAGGCCTCCAGCCCCTCGGCAGGGGTCCCGAGAGCCTCCCCAGAGCCGCCGGGC
CACGTGCTGGCTGTGTACAGCTCGAGGCTGGTCATGGTGGAGCCCGTGGAAGCCCAGCCGACCACGCTGGCCGAC
GCCATCATCCTGCTCACCGAGAGCCGCGGAGAGCGGCACGAGGGCCGTGAGGGCATGACCTGCTACTACCTGACA
CACGGTTGGGCGGGGCTCATCGTGGTGGTGGAGAACCGACACCCCAAGGCCTACCTGCACGTGCAGTGTGACTGC
ACCGACAGCTTCAACGTGGTGTCCACACGCGGCAGCCTGCGTACCCAGGATAGCGTGCCACCCCTGCACAGGCAG
GTCCTGGTGATCTTGTCCCAGCTAGAGGGCAACGCCGGCTTCTCTATCACCCACCGCCTGGCACATCGCAAGGCA
GCCCAGGCCTTCCTCAGTGACTGGACAGCCTCCAAGGGGACCCACAGCCCCCCACTCACGCCAGAGGTCGCCGGT
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**FIGURE 4362B**

CTGCATGGGCCCCGACCGCTG**TGA**CCACCATGCCTGGGGCAGGGGCTGTGCACAGACGGACCCCCCACCCCCACA
CGCACTTTATGAGGGAGACCCCGACAGAGGACGCTTGAGCCAGAATCTCAGGACCCCGCCCAGGGAGCTGCCAGC
CCAGGGCTCAGCTTCCCATGGGCCCCCCGCCCCCCTCCTTCCCCTCCCTGAACCCCACAGTCCGCCTGGCCAGAC
CTCCTGGCCGCCACGCAGAATACCTCGAACCAGGCGGGCTGTGAACCAGCCCCGCTCACCTGCCAGCCCCAACAC
CCGACGGGGGCCGAGGCCAGGCTGCCCCTCCCTGTGGGCTCAGGGTCTCCTGCGGGCTAGGCAGCCAGGAGCTCT
GTCCGCAAAACCAAATCTGGGTGTCAGAGGCCAAGACCCTGGGGTGGGATCAGGGACCACCCCTCACGGGGCATA
AGGTCAGTTTTCCCCCAGAGCCCGGGTCCCTGTCCCCCACAGGGCAGGCGGGGTCCCTGGAGCCCTGGTGTGGAG
CGGCGAGTCCCGGGGCGGTGCCTGTCTCAGAAGAAGGG

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# FIGURE 4363

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MATVGEWSCVRCTFLNPAGQRQCSICEAPRHKPDLNHILRLSVEEQKWPCARCTFRNFLGKEACEVCGFTPEPAP
GAAFLPVLNGVLPKPPAILGEPKGSCQEEAGPVRTAGLVATEPARGQCEDKDEEEKEEQEEEEGAAEPRGGWACP
RCTLHNTPVASSCSVCGGPRRLSLPRIPPEALVVPEVVAPAGFHVVPAAPPPGLPGEGAEANPPATSQGPAAEPE
PPRVPPFSPFSSTLQNNPVPRSRREVPPQLQPPVPEAAQPSPSAGCRGAPQGSGWAGASRLAELLSGKRLSVLEE
EATEGGTSRVEAGSSTSGSDIIDLAGDTVRYTPASPSSPDFTTWSCAKCTLRNPTVAPRCSACGCSKLHGFQEHG
EPPTHCPDCGADKPSPCGRSCGRVSSAQKAARVLPERPGQWACPACTLLNALRAKHCAACHTPQLLVAQRRGAAP
LRRRESMHVEQRRQTDEGEAKALWENIVAFCRENNVSFVDDSFPPGPESVGFPAGDSVQQRVRQWLRPQEINCSV
FRDHRATWSVFHTLRPSDILQGLLGNCWFLSALAVLAERPDLVERVMVTRSLCAEGAYQVRLCKDGTWTTVLVDD
MLPCDEAGCLLFSQAQRKQLWVALIEKALAKLHGSYFALQAGRAIEGLATLTGAPCESLALQLSSTNPREEPVDT
DLIWAKMLSSKEAGFLMGASCGGGNMKVDDSAYESLGLRPRHAYSILDVRDVQGTRLLRLRNPWGRFSWNGSWSD
EWPHWPGHLRGELMPHGSSEGVFWMEYGDFVRYFDSVDICKVHSDWQEARVQGCFPSSASAPVGVTALTVLERAS
LEFALFQEGSRRSDAVDSHLLDLCILVFRATFGSGGHLSLGRLLAHSKRAVKKFVSCDVMLEPGEYAVVCCAFNH
WGPPLPGTPAPQASSPSAGVPRASPEPPGHVLAVYSSRLVMVEPVEAQPTTLADAIILLTESRGERHEGREGMTC
YYLTHGWAGLIVVVENRHPKAYLHVQCDCTDSFNVVSTRGSLRTQDSVPPLHRQVLVILSQLEGNAGFSITHRLA
HRKAAQAFLSDWTASKGTHSPPLTPEVAGLHGPRPL
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# FIGURE 4364

CTGGGCCGCGAGGCGCGGAGCTTGGGAGCGGAGCCCAGGCCGTGCCGCGCGGCGCC**ATG**AAGGGCAAGGAGGAGA
AGGAGGGCGGCGCACGGCTGGGCGCTGGCGGCGGAAGCCCCGAGAAGAGCCCGAGCGCGCAGGAGCTCAAGGAGC
AGGGCAATCGTCTGTTCGTGGGCCGAAAGTACCCGGAGGCGGCGGCCTGCTACGGCCGCGCGATCACCCGGAACC
CGCTGGTGGCCGTGTATTACACCAACCGGGCCTTGTGCTACCTGAAGATGCAGCAGCACGAGCAGGCCCTGGCCG
ACTGCCGGCGCGCCCTGGAGCTGGACGGGCAGTCTGTGAAGGCGCACTTCTTCCTGGGGCAGTGCCAGCTGGAGA
TGGAGAGCTATGATGAGGCCATCGCCAATCTGCAGCGAGCTTACAGCCTGGCCAAGGAGCAGCGGCTGAACTTCG
GGGACGACATCCCCAGCGCTCTTCGAATCGCGAAGAAGAAGCGCTGGAACAGCATTGAGGAGCGGCGCATCCACC
AGGAGAGCGAGCTGCACTCCTACCTCTCCAGGCTCATTGCCGCGGAGCGTGAGAGGGAGCTGGAAGAGTGCCAGC
GAAACCACGAGGGTGATGAGGACGACAGCCACGTCCGGGCCCAGCAGGCCTGCATTGAGGCCAAGCACGACAAGT
ACATGGCGGACATGGACGAGCTTTTTTCTCAGGTGGATGAGAAGAGGAAGAAGCGAGACATCCCCGACTACCTGT
GTGGCAAGATCAGCTTTGAGCTGATGCGGGAGCCGTGCATCACGCCCAGTGGCATCACCTACGACCGCAAGGACA
TCGAGGAGCACCTGCAGCGTGTGGGTCATTTTGACCCCGTGACCCGGAGCCCCCTGACCCAGGAACAGCTCATCC
CCAACTTGGCTATGAAGGAGGTTATTGACGCATTCATCTCTGAGAATGGCTGGGTGGAGGACTAC**TGA**GGTTCCC
TGCCCTACCTGGCGTCCTGGTCCAGGGGAGCCCTGGGCAGAAGCCCCGGCCCCTATACATAGTTTATGTTCCTG
GCCACCCCGACCGCTTCCCCCAAGTTCTGCTGTTGGACTCTGGACTGTTTCCCCTCTCAGCATCGCTTTTGCTGG
GCCGTGATCGTCCCCCTTTGTGGGCTGGAAAAGCAGGTGAGGGTGGGCTGGGCTGAGGCCATTGCCGCCACTATC
TGTGTAATAAAATCCGTGAGCACGA

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# FIGURE 4365

MKGKEEKEGGARLGAGGGSPEKSPSAQELKEQGNRLFVGRKYPEAAACYGRAITRNPLVAVYYTNRALCYLKMQQ
HEQALADCRRALELDGQSVKAHFFLGQCQLEMESYDEAIANLQRAYSLAKEQRLNFGDDIPSALRIAKKKRWNSI
EERRIHQESELHSYLSRLIAAERERELEECQRNHEGDEDDSHVRAQQACIEAKHDKYMADMDELFSQVDEKRKKR
DIPDYLCGKISFELMREPCITPSGITYDRKDIEEHLQRVGHFDPVTRSPLTQEQLIPNLAMKEVIDAFISENGWV
EDY

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# FIGURE 4366

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GCGGAGCTTCCAGGGTCTCTGGGTCGCCAGCGCGCGGGCGCGCGGCTGGAGCCGGCGCCGGGCACGGCATCGGGG
GCCTGGACTGCACGGCCCGGCAGCAGGTTGGTCTTGGCGTGGGCGTGGGCGCGGGAGGGGGCTCGGAGCCAGGGTC
GGCCTGCCCACCGGGCCTGTGCGGGGCGCGGGTCTGCGCGGACTGCGGGGAGCGAGGAGGCCCCAGCCCTAACCC
GCGCTGCGGGCAGACCTGGCTGCCGGGCCTGGTAGTGCTGCAGCCCCTCCCCGCCCCCACCGTCGGGCAGAGGCA
TTCACGTGCATCCCCTGGAGGGGAGGGTCTGTGGGGAGGATCTGTGGGGCAGGTTTGGAACGGGCTCTTTCTCCA
GGCTTAGGTCAGGCAGGGCCCTTCAGGTCAGCCCGGAGCAGGCTGACTCCTTGACTCCCCAGCTGACGCCCTGGG
GACTGATCTCGGGGACTGAGGATGCAGGTGCACAGTAGGGCTGCGGACCCGGCTCGGTGGCTTCGCACCGGAGCC
CGGGTGGGGCGGTGCGGGTACCTCTGTATGCTGGGCTGGGGGCGCACCACGTGCTCACAGCACACGCACCCACGC
GTGGCTCGGCAGGCCGGCC**ATG**GAGCCAGGCAGCGTGGAGAACCTGTCCATCGTGTACCGGAGCCGCGACTTCCT
GGTGGTCAACAAGCACTGGGACGTTCGCATTGACAGCAAGGCGTGGCGGGAGACTCTGACCCTGCAGAAGCAGCT
GCGGTACCGCTTTCCCGAGCTGGCCGACCCTGACACCTGCTACGGGTTCAGGTTCTGCCACCAGCTGGATTTCTC
CACCAGCGGGGCGCTGTGCGTGGCCCTAAACAAGGCAGCCGCCGGCAGCGCGTACAGGTGCTTCAAGGAGCGGCG
CGTGACCAAGGCTTACCTGGCATTGCTGCGGGGGCACATCCAGGAGAGCCGGGTAACCATCAGCCATGCCATTGG
CAGGAACAGCACGGAGGGCCGGGCCCACACCATGTGCATCGAGGGCTCGCAGGGTTGTGAGAACCCAAAGCCAAG
CCTCACAGATCTCGTGGTTCTGGAACACGGGCTGTACGCAGGCGATCCTGTCTCCAAAGTGCTGCTGAAGCCGCT
CACGGGCCGGACACACCAGCTGCGCGTGCACTGCAGTGCCCTGGGCCACCCCGTGGTGGGCGACCTGACCTACGG
AGAAGTCTCGGGCCGGGAGGACCGGCCGTTCAGAATGATGCTGCACGCTTTCTACCTGCGCATCCCCACGGACAC
CGAGTGTGTGGAGGTCTGCACGCCTGACCCCTTCCTGCCCTCCCTGGATGCCTGCTGGAGCCCCCACACACTGCT
GCAGTCGCTGGACCAGCTCGTGCAGGCCTTACGGGCCACCCCCGACCCTGACCCCGAGGATAGGGGCCCCAGGCC
AGGCAGCCCCTCCGCACTCCTGCCTGGGCCCGGCCGGCCTCCTCCACCCCCAACCAAGCCCCCTGAGACTGAGGC
ACAGCGGGGCCCCTGCCTGCAGTGGCTGTCGGAGTGGACGCTGGAACCGGACAGC**TGA**GAGCCGTGGGGCTGGGG
CAGGGGGTGTCAGCTGCACAGCGGGACTCTAGGGAGATGGGCGAGCGAGCGTCTGCTCACTGGCTCTGGGGCCTC
GAGGTGCCAGGCAGCATCAGGCCCACTGGGTTGCCCCGGCCAGGCCTGCGAGGAAGGGCTGAGGTGGGGCCGGCA
GGGGGCGCCAGGCAGCCGTGATCACAGGTGACGACCGCACCGCGGCCGTGGGACTGATGCGGGATCCCGAGGGCC
TTCCTGCCCACATGCCCCGGGAGAAACCGAGGCCCCTCCCTCCTCCTGGAACAGCTTCCGGCTCTCAAGCGTCAC
CCCAGGGGCGTCAGTTTTACGGACTCAAGGTCACCTCAGGAAGAGGCAGGGCCAGGTTTTGGGATAGGCTTTGCC
TCCAGGATGGGCTGCTCCTGGGCCTGGTGAGCTACTGCCCCCAACCTACCCTCTAGAGGGGCTGGGAAGGGCCGT
TCTGGGCTCACCTGGCCTGGGAGACCCATCTGGTCCCTGCGTCCTCTGCCCCTCACTGCTCTGTGCAGATCCTGT
CGCCCTCAGCTGCCTCCTCCCGAGACCTAATGGTCCCTGCTGGGCTCGAGTCTGCAGGCCCGGCTGCGTGTGCCT
TGGCCTCACTGTACCAGTGGTTCCCTCTCTGCCCGGATTCTGAGCTCAGTGTGGTGTTTGGTGCACAGGGGTTGG
TCAGGGGCCATGGCCAAGGCCCTGCCACGCACGCCCATCCCTCAGATCCACTGTGAGCACCAACCTGCTGCAGTC
TCTTGGGCCCCTGCTGGCAGCTCTGCCACGTCACCGCCTGCCTGGCTCCCACACAGCCATGCATTGTCACTCTGC
CTCCGGGACCCCAGCTTGGGAGCTGTGGGTCTGCCAGGTCCCACCTCCTCTGTCCCCCATGCCACAACCTGGGCT
CCTGGCTACAGCAGGGCTCCAGGGACTCCAAATAAATGTTCAGTGACTGGCTCCAAGGATGAC
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# FIGURE 4367

MEPGSVENLSIVYRSRDFLVVNKHWDVRIDSKAWRETLTLQKQLRYRFPELADPDTCYGFRFCHQLDFSTSGALC
VALNKAAAGSAYRCFKERRVTKAYLALLRGHIQESRVTISHAIGRNSTEGRAHTMCIEGSQGCENPKPSLTDLVV
LEHGLYAGDPVSKVLLKPLTGRTHQLRVHCSALGHPVVGDLTYGEVSGREDRPFRMMLHAFYLRIPTDTECVEVC
TPDPFLPSLDACWSPHTLLQSLDQLVQALRATPDPDPEDRGPRPGSPSALLPGPGRPPPPPTKPPETEAQRGPCL
QWLSEWTLEPDS

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## FIGURE 4368

GCGGGAGGTTCGGAGCGGGAGCTCGGGCTCGCGGACGGT**ATG**GAGGACTACGAGCAGGAGCTGTGCGGCGTCGAG
GATGATTTCCACAACCAGTTCGCGGCCGAGCTGGAGGTGCTGGCAGAGCTGGAAGGGGCGTCGACTCCGTCGCCC
TCCGGGGTCCCCCTGTTCACCGCGGGCCGACCCCCGCGGACGTTCGAGGAGGCCCTTGCCAGAGGGGACGCGGCC
TCCAGTCCCGCCCCAGCCGCATCTGTGGGCAGCAGCCAGGGCGGCGCCAGGAAGAGGCAGGTGGACGCCGACCTG
CAGCCGGCCGGGTCCCTGCCCCACGGTAGGTTGGCGGCATTGCCCCAGGGCCTCCGGAGTGGGCGCGAGGCTGAG
GAGGCCTCTGGTTCCCTGCATGTGTCTCCCCCAGCCCCCAGGATCAAACGGCCTAGGCTGCAGGTGGTCAAGAGG
CTGAACTTCAGATCGGAGGAGATGGAGGAGCCGCCCCCTCCCGACTCCTCGCCGACGGACATCACCCCGCCGCCG
AGCCCTGAGGACCTCGCAGAGCTTTGGGGCCACGGAGTCTCAGAAGCTGCTGCCGACGTGGGTCTCACACGGGCC
TCACCAGCTGCCCGCAATCCCGTCCTGAGGCGGCCCCCCATCTTGGAGGACTACGTCCACGTGACATCCACGGAG
GGCGTCCGGGCTTATCTGGTGCTGCGTGCTGACCCCATGGCCCCGGGGGTGCAGGGCTCTCTCCTCCACGTCCCA
TGGCGAGGCGGTGGCCAGCTGGACCTGCTGGGTGTGTCCTTAGCCTCCCTGAAGAAGCAGGTCGACGGCGAGCGG
CGGGAGCGGCTGCTTCAGGAGGCCCAGAAGCTTTCAGACACCCTGCACAGTCTCAGGTCGGGGGAGGAGGAGGCA
GCCCAGCCCTTGGGGGCCCCTGAGGAGGAGCCGACTGACGGTCAAGACGCCTCCAGTCACTGCCTCTGGGTGGAT
GAGTTTGCACCCCGCCACTACACGGAGCTGCTCAGTGATGACTTCACCAACCGCTGCCTGCTCAAGTGGCTGAAG
TTGTGGGACCTGGTGGTGTTTGGCCACGAGAGGCCTTCCCGGAAGCCCAGGCCCAGTGTTGAGCCGGCCCGGGTC
AGCAAGGAGGCCACAGCCCCAGGCAAGTGGAAGAGCCACGAACAGGTGCTGGAGGAGATGCTGGAGGCTGGGCTG
GACCCGAGCCAGCGACCGAAGCAGAAGGTGGCACTGCTCTGTGGGCCCCCGGGGCTGGGGAAGACCACCCTGGCA
CACGTGATTGCGCGTCACGCGGGGTACTCTGTGGTGGAGATGAACGCCAGTGACGACCGTAGCCCGGAGGTCTTC
CGCACACGCATCGAGGCGGCCACCCAGATGGAGTCGGTGCTGGGTGCTGGCGGGAAGCCCAACTGCCTGGTCATC
GATGAGATCGACGGGGCCCCCGTGGCCGCCATCAACGTCCTCCTGAGCATCCTGAACCGCAAGGGGCCACAGGAG
GTGGGGCCACAGGGCCCGGCTGTGCCTTCGGGAGGCGGCCGACGGCGCCGGGCAGAGGGGGGGCTCCTCATGAGG
CCCATTATCTGCATTTGCAATGACCAGTTCGCACCGTCCCTGCGGCAGCTGAAGCAGCAGGCCTTCCTGCTCCAC
TTCCCGCCGACTCTGCCCTCGAGGCTGGTGCAGCGGCTCCAGGAGGTCTCCCTGCGGCAGGGCATGAGGGCCGAC
CCAGGGGTGCTGGCCGCCCTCTGTGAGAAAACTGACAATGACATCCGGGCCTGCATCAACACCCTGCAGTTCCTG
TACAGCCGGGGCCAGCGGGAGCTGAGCGTGCGGGACGTGCAGGCCACACGCGTGGGCCTCAAGGACCAGCGCAGA
GGGCTCTTCTCGGTGTGGCAGGAGGTCTTCCAGCTGCCTCGAGCCCAGAGGCGCCGTGTGGGCCAGGACCCCGCC
CTGCCTGCTGACACACTCCTGCTGGGTGACGGGGACGCGGGCTCCCTCACCTCCGCCTCACAGCGATTCTACCGT
GTCCTGCATGCCGCTGCCTCTGCGGGCGAGCACGAGAAGGTGGTCCAGGGCTTGTTTGACAACTTCCTGCGTCTG
CGGCTGCGAGACTCCAGCCTGGGTGCTGTGTGTGTGGCCCTCGACTGGCTGGCCTTCGATGACCTGCTGGCGGGG
GCTGCTCATCACAGCCAGAGCTTCCAGCTGCTGCGCTACCCACCCTTCCTGCCCGTGGCCTTCCATGTGCTGTTT
GCTTCCAGCCACACACCCAGGATCACCTTCCCCAGCAGCCAGCAGGAGGCCCAGAACCGGATGAGCCAGATGAGG
AACCTGATCCAGACGCTGGTGTCCGGCATCGCGCCAGCCACGCGCAGCCGGGCCACGCCCCAGGCCCTGCTCCTC
GATGCCCTCTGCCTGCTCCTGGACATTCTTGCACCCAAGCTCCGCCCCGTGAGCACACAGCTGTACAGCACCCGT
GAAAAGCAACAGCTGGCCAGCCTGGTGGGCACGATGCTCGCTTACAGCCTGACCTACCGCCAGGAGCGCACGCCC
GATGGCCAGTACATCTACAGGCTGGAGCCGAACGTGGAGGAACTCTGCCGCTTCCCTGAGCTGCCTGCCCGCAAG
CCCCTCACCTACCAGACGAAGCAGCTCATCGCCCGCGAGATCGAGGTGGAGAAGATGCGGCGGCGGAGGCTTCT
GCCCGGGTAGAGAACAGCCCCCAGGTGGATGGGAGCCCCCCAGGGCTCGAGGGTCTGCTGGGGGGCATTGGGGAG
AAAGGGGTGCACCGACCTGCCCCACGCAACCATGAGCAGCGGCTGGAGCACATCATGAGGCGAGCGGCCCGGGAG
GAACAGCCTGAGAAGGACTTCTTTGGACGTGTGGTCGTCAGGAGCACAGCAGTCCCGAGTGCAGGGGACACGGCC
CCGGAGCAGGACTCAGTGGAGCGGCGCATGGGCACAGCGGTGGGCAGGAGCGAGGTCTGGTTCCGCTTCAACGAG
GGTGTCTCCAACGCCGTGCGGCGCAGCCTGTACATCAGGGACTTGCTC**TAG**TTCTCTGAGCCGCGGACATGCCCT
CGCATTGCTTCCCGCAGAGTGCAGAGACAGGAAGCTGGAGATGTCTTTATAAAGTCACACCTTTACAGACTGT

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# FIGURE 4369

MEDYEQELCGVEDDFHNQFAAELEVLAELEGASTPSPSGVPLFTAGRPPRTFEEALARGDAASSPAPAASVGSSQ
GGARKRQVDADLQPAGSLPHGRLAALPQGLRSGREAEEASGSLHVSPPAPRIKRPRLQVVKRLNFRSEEMEEPPP
PDSSPTDITPPPSPEDLAELWGHGVSEAAADVGLTRASPAARNPVLRRPPILEDYVHVTSTEGVRAYLVLRADPM
APGVQGSLLHVPWRGGGQLDLLGVSLASLKKQVDGERRERLLQEAQKLSDTLHSLRSGEEEAAQPLGAPEEEPTD
GQDASSHCLWVDEFAPRHYTELLSDDFTNRCLLKWLKLWDLVVFGHERPSRKPRPSVEPARVSKEATAPGKWKSH
EQVLEEMLEAGLDPSQRPKQKVALLCGPPGLGKTTLAHVIARHAGYSVVEMNASDDRSPEVFRTRIEAATQMESV
LGAGGKPNCLVIDEIDGAPVAAINVLLSILNRKGPQEVGPQGPAVPSGGGRRRRAEGGLLMRPIICICNDQFAPS
LRQLKQQAFLLHFPPTLPSRLVQRLQEVSLRQGMRADPGVLAALCEKTDNDIRACINTLQFLYSRGQRELSVRDV
QATRVGLKDQRRGLFSVWQEVFQLPRAQRRRVGQDPALPADTLLLGDGDAGSLTSASQRFYRVLHAAASAGEHEK
VVQGLFDNFLRLRLRDSSLGAVCVALDWLAFDDLLAGAAHHSQSFQLLRYPPFLPVAFHVLFASSHTPRITFPSS
QQEAQNRMSQMRNLIQTLVSGIAPATRSRATPQALLLDALCLLLDILAPKLRPVSTQLYSTREKQQLASLVGTML
AYSLTYRQERTPDGQYIYRLEPNVEELCRFPELPARKPLTYQTKQLIAREIEVEKMRRAEASARVENSPQVDGSP
PGLEGLLGGIGEKGVHRPAPRNHEQRLEHIMRRAAREEQPEKDFFGRVVVRSTAVPSAGDTAPEQDSVERRMGTA
VGRSEVWFRFNEGVSNAVRRSLYIRDLL

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## FIGURE 4370

<u>ATG</u>GGTAGCCGGGCGCGGGGCGGGGCCGCGGGGCCGCCGCTTAAAGAAACTTGTTGCGGGTCCCGCAGCGGGACC
CGAGCCTCGGCGGCGGCGGCGGCGGCGGCAGGGGCGAGGGTCGGGGCCACCGCGCGGCGACCTCGGGTCCCGGAG
CGACCGCAGGGCAGCCCCGGGCGCCGGCCCCGGTGCGCGTCTCCTGTGCGCGCCCCTCCGCGCGCGGCCCCGATG
CTGGACATGAGCGAGGCCCGCTCCCAGCCGCCCTGCAGCCCGTCCGGCACCGCCAGCTCCATGTCGCACGTGGAG
GACTCGGACTCGGACGCGCCGCCGTCTCCCGCCGGCTCCGAGGGCCTGGGCCGCGCGGGGGTCGCGGTGGGGGGC
GCCCGGGGCGACCCGGCGGAGGCGGCGGACGAGCGCTTCCCGGCCTGCATCCGCGACGCCGTGTCGCAGGTGCTC
AAGGGCTACGACTGGAGTCTGGTGCCCATGCCGGTGCGCGGCGGCGGCGGCGGCGCGCTCAAAGCCAAGCCGCAT
GTGAAGCGGCCCATGAACGCATTCATGGTGTGGGCGCAGGCGGCGCGCCGCAAGCTGGCCGACCAGTACCCGCAC
CTGCACAACGCCGAGCTCAGCAAGACGCTGGGCAAGCTGTGGCGCTTGCTGAGCGAGAGCGAGAAGCGGCCCTTC
GTGGAGGAGGCAGAGCGCCTTCGCGTGCAGCACAAGAAGGACCACCCCGACTACAAGTACCAGCCACGGCGCAGG
AAGAGCGCCAAAGCCGGCCACAGCGACTCCGACTCGGGCGCGGAGCTGGGACCCCACCCTGGCGGCGGTGCCGTG
TACAAGGCTGAAGCAGGGCTTGGAGATGGGCACCACCATGGCGACCACACAGGGCAGACCCACGGGCCGCCCACC
CCGCCCACCACCCCCAAGACGGAGCTGCAGCAGGCGGGCGCCAAGCCGGAGCTGAAGCTGGAGGGACGCCGGCCG
GTGGACAGCGGGCGCCAGAACATCGACTTCAGCAACGTGGACATCTCGGAGCTCAGCAGCGAGGTCATGGGCACC
ATGGACGCCTTCGACGTCCACGAGTTCGACCAGTACCTGCCCCTGGGCGGCCCCGCCCCACCCGAGCCGGGCCAG
GCCTATGGGGGCGCCTACTTCCACGCCGGGGCGTCCCCCGTGTGGGCCCACAAGAGTGCCCCGTCGGCCTCCGCG
TCGCCCACCGAGACGGGTCCCCCACGGCCGCACATCAAGACGGAGCAGCCGAGCCCCGGCCACTACGGCGACCAG
CCCCGAGGCTCGCCCGACTACGGTTCCTGCAGCGGCCAGTCCAGCGCCACCCCGGCCGCCCCCGCCGGCCCCTTC
GCCGGCTCACAGGGCGACTATGGCGACCTGCAGGCCTCCAGCTACTATGGTGCCTACCCTGGCTACGCACCCGGC
CTCTACCAGTACCCCTGCTTCCACTCGCCGCGCCGGCCCTACGCCTCACCCCTGCTCAACGGCCTGGCCCTGCCG
CCCGCCCACAGCCCCACCAGTCACTGGGACCAGCCGGTGTACACCACCCTGACCAGGCCC<u>TGA</u>

## FIGURE 4371

MGSRARGGAAGPPLKETCCGSRSGTRASAAAAAAAGARVGATARRPRVPERPQGSPGRRPRCASPVRAPPRAAPM
LDMSEARSQPPCSPSGTASSMSHVEDSDSDAPPSPAGSEGLGRAGVAVGGARGDPAEAADERFPACIRDAVSQVL
KGYDWSLVPMPVRGGGGGALKAKPHVKRPMNAFMVWAQAARRKLADQYPHLHNAELSKTLGKLWRLLSESEKRPF
VEEAERLRVQHKKDHPDYKYQPRRRKSAKAGHSDSDSGAELGPHPGGGAVYKAEAGLGDGHHHGDHTGQTHGPPT
PPTTPKTELQQAGAKPELKLEGRRPVDSGRQNIDFSNVDISELSSEVMGTMDAFDVHEFDQYLPLGGPAPPEPGQ
AYGGAYFHAGASPVWAHKSAPSASASPTETGPPRPHIKTEQPSPGHYGDQPRGSPDYGSCSGQSSATPAAPAGPF
AGSQGDYGDLQASSYYGAYPGYAPGLYQYPCFHSPRRPYASPLLNGLALPPAHSPTSHWDQPVYTTLTRP

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## FIGURE 4372A

GGCACGAGGCCGGCGCTTCCCGGCCGGTGTCGCTCCGCGGCGGGCCATGGCCAACGTCTCTAAGAAGGTGTCCTG
GTCCGGCCGGGACCGGGACGACGAGGAGGCGGCGCCGCTGCTGCGGAGGACGGCGCGGCCCGGCGGGGGGACGCC
GCTGCTGAACGGGGCTGGGCCTGGGGCTGCGCGCCAGTCACCACGTTCTGCGCTTTTCCGAGTCGGACATATGAG
CAGCGTGGAGCTGGATGATGAACTTTTGGACCCGGATATGGACCCTCCACATCCCTTCCCCAAGGAGATCCCACA
CAACGAGAAGCTCCTGTCCCTCAAGTATGAGAGCTTGGACTATGACAACAGTGAGAACCAGCTGTTCCTGGAGGA
GGAGCGGCGGATCAATCACACGGCCTTCCGGACGGTGGAGATCAAGCGCTGGGTCATCTGCGCCCTCATTGGGAT
CCTCACGGGCCTCGTGGCCTGCTTCATTGACATCGTGGTGGAAAACCTGGCTGGCCTCAAGTACAGGGTCATCAA
GGGCAATATCGACAAGTTCACAGAGAAGGGCGGACTGTCCTTCTCCCTGTTGCTGTGGGCCACGCTGAACGCCGC
CTTCGTGCTCGTGGGCTCTGTGATTGTGGCTTTCATAGAGCCGGTGGCTGCTGGCAGCGGAATCCCCCAGATCAA
GTGCTTCCTCAACGGGGTGAAGATCCCCACGTGGTGCGGCTCAAGACGTTGGTGATCAAAGTGTCCGGTGTGAT
CCTGTCCGTGGTCGGGGGCCTGGCCGTGGGAAAGGAAGGGCCGATGATCCACTCAGGTTCAGTGATTGCCGCCGG
GATCTCTCAGGGAAGGTCAACGTCACTGAAACGAGATTTCAAGATCTTCGAGTACTTCCGCAGAGACACAGAGAA
GCGGGACTTCGTCTCCGCAGGGGCTGCGGCCGGAGTGTCAGCGGCGTTTGGAGCCCCCGTGGGTGGGGTCCTGTT
CAGCTTGGAGGAGGGTGCGTCCTTCTGGAACCAGTTCCTGACCTGGAGGATCTTCTTTGCTTCCATGATCTCCAC
GTTCACCCTGAATTTTGTTCTGAGCATTTACCACGGGAACATGTGGGACCTGTCCAGCCCAGGCCTCATCAACTT
CGGAAGGTTTGACTCGGAGAAAATGGCCTACACGATCCACGAGATCCCGGTCTTCATCGCCATGGGCGTGGTGGG
CGGTGTGCTTGGAGCAGTGTTCAATGCCTTGAACTACTGGCTGACCATGTTTCGAATCAGGTACATCCACCGGCC
CTGCCTGCAGGTGATTGAGGCCGTGCTGGTGGCCGCCGTCACGGCCACAGTTGCCTTCGTGCTGATCTACTCGTC
GCGGGATTGCCAGCCCCTGCAGGGGGGCTCCATGTCCTACCCGCTGCAGCTCTTTTGTGCAGATGGCGAGTACAA
CTCCATGGCTGCGGCCTTCTTCAACACCCCGGAGAAGAGCGTGGTGAGCCTCTTCCACGACCCGCCAGGCTCCTA
CAACCCCCTGACCCTCGGCCTGTTCACGCTGGTCTACTTCTTCCTGGCCTGCTGGACCTACGGGCTCACGGTGTC
TGCCGGGGTCTTCATCCCGTCCCTGCTCATCGGGGCTGCCTGGGGCCGGCTCTTTGGGATCTCCCTGTCCTACCT
CACGGGGGCGGCGATCTGGGCGGACCCCGGCAAATACGCCCTGATGGGAGCTGCTGCCCAGCTGGGCGGGATTGT
GCGGATGACACTGAGCCTGACCGTCATCATGATGGAGGCCACCAGCAACGTGACCTACGGCTTCCCCATCATGCT
GGTGCTCATGACCGCCAAGATCGTGGGCGACGTCTTCATTGAGGGCCTGTACGACATGCACATTCAGCTGCAGAG
TGTGCCCTTCCTGCACTGGGAGGCCCCGGTCACCTCACACTCACTCACTGCCAGGGAGGTGATGAGCACACCAGT
GACCTGCCTGAGGCGGCGTGAGAAGGTCGGCGTCATTGTGGACGTGCTGAGCGACACGGCGTCCAATCACAACGG
CTTCCCCGTGGTGGAGCATGCCGATGACACCCAGCCTGCCCGGCTCCAGGGCCTGATCCTGCGCTCCCAGCTCAT
CGTTCTCCTAAAGCACAAGGTGTTTGTGGAGCGGTCCAACCTGGGCCTGGTACAGCGGCGCCTGAGGCTGAAGGA
CTTCCGAGACGCCTACCCGCGCTTCCCACCCATCCAGTCCATCCACGTGTCCCAGGACGAGCGGGAGTGCACCAT
GGACCTCTCCGAGTTCATGAACCCCTCCCCCTACACGGTGCCCCAGGAGGCGTCGCTCCCACGGGTGTTCAAGCT
GTTCCGGGCCCTGGGCCTGCGGCACCTGGTGGTGGTGGACAACCGCAATCAGGTTGTCGGGGTTGGTGACCAGGAA
GGACCTCGCCAGGTACCGCCTGGGAAAGAGAGGCTTGGAGGAGCTCTCGCTGGCCCAGACGTGAGGCCCAGCCCT
GCCCATAATGGGCACTGGCGCTGGCACCCCGGCCCTTCTGCATTTCCTCCCGGAGTCACTGGTTTCTCGGCCCAA
ACCATGCTCCCCAGCAGTGGCAATGGCGAGCACCCTGCAGCTGGGCGGGCAGGCGGCAGGCGCGGAACTGACCCT
CTCGCGGGACTGACCCTGTTGTGGGCAGTGGTCTCCCCCCTTGGCGCCTCCTTGCGCAGGCCCAGCCTCCACTCT
CCTCGTCTAGGTTTCTTTACCTCCAGGGATCAGCTGTGTGTGTGTGACCTCCCTACCGGGCTATCGGCCTCTTGG
GAGCCAGCGGCAGGGCCGGCACCTGCGTGCCTGTGCCCGTGTGCGTGAGACAGAGCCCTTGCCCCTGCTGCTGCC
CCGAGGGCTGCCCTGCCCTGGAAGGGCCCCTCTGCCTCCACACCAGTGGAGTCTTCGAGACTTGGGAGCTGCTTG
GCCTCATTTTCAGCCATGAGCAGACGGCCTGTGGTCCCTGGGCCTGAGGCACGGACTCGTAGCACCAGGGTTTGG
AGGCTGCGACCGCCCCGGAGAGCAGCTTCACACTGGCGCCACAGAGGAGCCCCACGTGCACTCCCCGGCCTGCAT
CCGGCTTGGGTACACGGGCCCAGAGGACTGGGGTGACTCACGGGCCCTGTGCTGTGATGTTGAGAGCTGAGAAAA
ACCTCCAAGGCCCTGAGCCCCATGCCCAGCCCTGCCTTGGTCCCCCAACCCCCAGAGCTTGGAGTCTGGGCCCCA
CACCCAGCCCTGCCTTGGTCCCTGAGCCTCAGAGCGTGGAATTGCTGCCCTGTGGACACTGGCTGGGAAGGCAGG
TCTTCCCCTAGCACATGGGGACCCCGGCCTCGAGGGTGACCTCCCTACCTTGCCCCTGCCAGCCACCAAGCGCAG
GTGCAGCGGGGGCCAGACTCCTGCCGGCCTCAGAGGACACCTGGCCCAGCACAGGCAGCTAGAAGGGCCGGTGGG
CACCGGGGCCGGGAAGCCCCCACCTCACCACCTGAGGGCCCCTGGGAGGCTCCTCTGGCCTGGCTGGGCTGGGTC
TGGGGCCGCCACAGGCCCCTCACGGGGCGGCAGAGGCAACTTCAGTGTCCCTGTTAGAGCAACACGGGTCCCTCC

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## FIGURE 4372B

GTGGGGGGCTGGGTGCGGCCCCCTGCCGTGTATTTCCTCCCCAGGGAGTGGGGCCTCCCCGGGAGCTGACGCCAC
CACCCTGCTTAGCCCTCACAGGGCCCCAAGGTGTCCGAGTGTGTTGGGTCTGAACGCGAAATAAAGAAATCCTCT
CAAAAAAAAAAAAAAAAAAA

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# FIGURE 4373

MANVSKKVSWSGRDRDDEEAAPLLRRTARPGGGTPLLNGAGPGAARQSPRSALFRVGHMSSVELDDELLDPDMDP
PHPFPKEIPHNEKLLSLKYESLDYDNSENQLFLEEERRINHTAFRTVEIKRWVICALIGILTGLVACFIDIVVEN
LAGLKYRVIKGNIDKFTEKGGLSFSLLLWATLNAAFVLVGSVIVAFIEPVAAGSGIPQIKCFLNGVKIPHVVRLK
TLVIKVSGVILSVVGGLAVGKEGPMIHSGSVIAAGISQGRSTSLKRDFKIFEYFRRDTEKRDFVSAGAAAGVSAA
FGAPVGGVLFSLEEGASFWNQFLTWRIFFASMISTFTLNFVLSIYHGNMWDLSSPGLINFGRFDSEKMAYTIHEI
PVFIAMGVVGGVLGAVFNALNYWLTMFRIRYIHRPCLQVIEAVLVAAVTATVAFVLIYSSRDCQPLQGGSMSYPL
QLFCADGEYNSMAAAFFNTPEKSVVSLFHDPPGSYNPLTLGLFTLVYFFLACWTYGLTVSAGVFIPSLLIGAAWG
RLFGISLSYLTGAAIWADPGKYALMGAAAQLGGIVRMTLSLTVIMMEATSNVTYGFPIMLVLMTAKIVGDVFIEG
LYDMHIQLQSVPFLHWEAPVTSHSLTAREVMSTPVTCLRRREKVGVIVDVLSDTASNHNGFPVVEHADDTQPARL
QGLILRSQLIVLLKHKVFVERSNLGLVQRRLRLKDFRDAYPRFPPIQSIHVSQDERECTMDLSEFMNPSPYTVPQ
EASLPRVFKLFRALGLRHLVVVDNRNQVVGLVTRKDLARYRLGKRGLEELSLAQT

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# FIGURE 4374

GCGCCCCAGAGGCTCAAGAAAACCCGCGGGAGCCTCGCCCGGACCCAGGAACTCGTGCTCGGGGCCAACCGGCTG
GGCCGCGATCGCGTTTCGTCCGGGGCCGCGGCGGCCGTGGGGAATCGGCTGCAGCGAATCGGTGGCGCGCGGCGC
CTGAGCGCGCTGCAGTCACCCGGGAGCCGGGTCCAGGTCGTCTTCCCGTGACGCCCAGATCTGTCCTGCAGG**ATG**

GAGCCAGCACCCTCAGAGGTTCGACTCGCCGTCCGGGAAGCCATTCATGCCCTCTCGTCTTCGGAGGATGGCGGC
CACATCTTCTGCACCCTGGAGTCCCTGAAGCGGTATCTCGGTGAGATGGAGCCTCCAGCGCTCCCGAGGGAGAAG
GAGGAGTTTGCCTCGGCCCACTTCTCGCCTGTCCTCAGATGTCTTGCCAGCAGGCTGAGCCCAGCCTGGCTGGAG
CTGCTGCCCCATGGCCGCCTGGAGGAGCTGTGGGCCAGCTTCTTCCTGGAGGGCCCGGCGGACCAAGCCTTCCTG
GTGTTGATGGAGACCATCGAGGGTGCTGCGGGCCCCAGCTTCCGGCTGATGAAGATGGCGCGGCTGCTGGCCAGA
TTCCTGCGCGAGGGCCGGCTGGCAGTGCTGATGGAGGCGCAGTGTCGGCAGCAGACGCGGCCCGGCTTCATCCTG
CTCCGGGAGACGCTGCTGGGCAAGGTGGTGGCCCTGCCCGATCACCTGGGCAACCGCCTGCAGCAGGAGAACTTG
GCCGAGTTCTTCCCCCAGAACTACTTCCGCCTGCTCGGCGAGGAGGTCGTCCGGGTGCTGCAGGCGGTTGTGGAC
TCTCTCCAAGGTGGCCTGGATTCCTCCGTGTCCTTCGTGTCTCAGGTCCTTGGGAAAGCCTGTGTCCACGGGAGG
CAGCAGGAGATCCTGGGCGTGCTGGTACCCCGGCTGGCAGCGCTCACCCAGGGCAGCTACCTGCACCAGCGCGTC
TGCTGGCGCCTGGTGGAGCAAGTGCCGGACCGGGCCATGGAGGCTGTGCTGACCGGGCTGGTGGAGGCCGCACTG
GGGCCTGAGGTCCTTTCGAGACTGCTGGGGAACCTGGTGGTGAAGAACAAGAAGGCCCAGTTTGTGATGACCCAG
AAGCTTCTGTTCTTACAGTCCCGGCTCACGACGCCCATGCTGCAGAGCCTGCTGGGCCATCTGGCCATGGACAGC
CAGCGGCGCCCGCTCCTGCTGCAGGTGCTGAAGGAGCTGTTGGAGACGTGGGGCAGCAGCAGTGCCATCCGCCAC
ACTCCCCTGCCGCAGCAGCGCCACGTCAGCAAGGCTGTCCTCATCTGCCTGGCGCAACTCGGGGAGCCGGAACTG
CGGGACAGCCGGGATGAACTGCTGGCCAGCATGATGGCGGGCGTGAAGTGCCGCCTGGACAGTAGCCTGCCCCCC
GTGCGACGCCTGGGCATGATCGTGGCAGAGGTCGTTAGTGCCCGGATCCACCCCGAGGGGCCTCCCCTGAAATTC
CAGTACGAAGAGGATGAACTGAGCCTCGAGCTGCTGGCCTTGGCCTCCCCCCAGCCTGCGGGTGACGGCGCCTCG
GAGGCGGGCACGTCCCTCGTTCCAGCCACGGCAGAGCCCCCTGCAGAGACCCCCGCAGAGATCGTGGATGGCGGC
GTCCCCCAAGCACAGCTGGCGGGGCTCTGACTCGGACCTGGACAGCGATGATGAGTTTGTCCCCTACGACATGTCG
GGGGACAGAGAGCTGAAGAGCAGCAAGGCTCCTGCCTACGTCCGGGACTGCGTGGAAGCCCTGACCACGTCTGAG
GACATAGAGCGCTGGGAGGCAGCCCTGCGGGCCCTTGAGGGCCTGGTCTACAGGAGCCCCACAGCCACTCGGGAG
GTGAGCGTGGAGCTGGCCAAGGTGCTTCTGCATCTGGAGGAGAAGACCTGTGTGGTGGGATTTGCAGGGCTGCGC
CAGAGAGCCCTGGTGGCCGTCACGGTCACAGACCCGGCCCCGGTGGCCGACTATCTGACCTCACAGTTCTATGCC
CTCAACTACAGCCTCCGGCAGCGCATGGACATCCTGGATGTGCTGACTCTGGCTGCCCAGGAGCTGTCTAGGCCT
GGGTGCCTCGGGAGGACTCCCCAACCTGGCTCCCCAAGTCCCAACACCCCGTGCCTGCCAGAGGCAGCCGTCTCT
CAGCCTGGCAGTGCCGTGGCGTCTGACTGGCGGGTGGTGGTGGAGGAGCGGATCAGAAGCAAGACCCAGCGGCTC
TCCAAGGGTGGCCCGAGGCAGGGCCCGGCAGGCAGCCCCAGCAGATTCAACTCCGTGGCCGGCCACTTCTTCTTC
CCCCTCCTTCAGCGCTTTGACAGGCCTCGTGGTGACCTTCGACCTCTTGGGAGAAGACCAGCTGGTTCTCGGAAGG
CTGGCGCACACCTTAGGGGCCCTGATGTGCCTGGCTGTTAACACCACGGTGGCTGTGGCCATGGGCAAGGCCCTG
CTGGAATTCGTGTGGGCCCTTCGCTTCCACATCGATGCCTACGTGCGCCAGGGGCTGTTGTCGGCCGTCTCCTCC
GTCCTGCTCAGCCTGCCTGCTGCGCGCCTGCTGGAGGACCTGATGGACGAGCTGCTGGAAGCCCGGTCCTGGCTG
GCGGACGTGGCTGAGAAAGACCCGGACGAGGACTGCAGGACGCTGGCACTGAGGGCCCTGCTGCTTCTGCAGAGA
CTCAAGAACAGGCTCCTCCCACCCGCGTCTCCC**TAG**TCCCTGGAGGCCTCCCCAGGACCACCCTCGCCGACAGCA
AGGCAGGCGGCTGAGCAGCGGCCTGGAGCAGCAGAGCCAGGCTTTGTAGCGAGGCCAGGTCTTCGGCCGCATCCG
GTACGGAGAGTGCAGATGCAGGAAGGCCCGGCCTGCCGCTATTTATAGTGCAGCCAGTCCGCTAAAAATACACTG
GGCCTGGGCACTGCCCGCCGGGACATGGCAGCCTGGACGTGGGGCTGGGGCTGTGGGCGCTGCTGGCGGGGTTGA
CTCTTCCAGTGAGGGCAGAACCAGGCTGGCAGGAGGGGAGGACGGTGTACCTGCTGCTCAGAGCCCCCAAGGCTC
TCCTCTGAGAGCCACCAAGCAGGACAGAGCAGCTCTTGTCCCAGGTCCCTCGGGCTGAGCGCCGTGTCACCAGGA
GAATAGTGCTCACAGCCCAGGCAGGGTGTGTGGCTCCTGGATGGGCTCGTGGGGCGGGATGGGACAGGGCACGGG
CTCTCAGAAAATAAACTGCTTTATTGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAA

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# FIGURE 4375

MEPAPSEVRLAVREAIHALSSSEDGGHIFCTLESLKRYLGEMEPPALPREKEEFASAHFSPVLRCLASRLSPAWL
ELLPHGRLEELWASFFLEGPADQAFLVLMETIEGAAGPSFRLMKMARLLARFLREGRLAVLMEAQCRQQTRPGFI
LLRETLLGKVVALPDHLGNRLQQENLAEFFPQNYFRLLGEEVVRVLQAVVDSLQGGLDSSVSFVSQVLGKACVHG
RQQEILGVLVPRLAALTQGSYLHQRVCWRLVEQVPDRAMEAVLTGLVEAALGPEVLSRLLGNLVVKNKKAQFVMT
QKLLFLQSRLTTPMLQSLLGHLAMDSQRRPLLLQVLKELLETWGSSSAIRHTPLPQQRHVSKAVLICLAQLGEPE
LRDSRDELLASMMAGVKCRLDSSLPPVRRLGMIVAEVVSARIHPEGPPLKFQYEEDELSLELLALASPQPAGDGA
SEAGTSLVPATAEPPAETPAEIVDGGVPQAQLAGSDSDLDSDDEFVPYDMSGDRELKSSKAPAYVRDCVEALTTS
EDIERWEAALRALEGLVYRSPTATREVSVELAKVLLHLEEKTCVVGFAGLRQRALVAVTVTDPAPVADYLTSQFY
ALNYSLRQRMDILDVLTLAAQELSRPGCLGRTPQPGSPSPNTPCLPEAAVSQPGSAVASDWRVVVEERIRSKTQR
LSKGGPRQGPAGSPSRFNSVAGHFFFPLLQRFDRPLVTFDLLGEDQLVLGRLAHTLGALMCLAVNTTVAVAMGKA
LLEFVWALRFHIDAYVRQGLLSAVSSVLLSLPAARLLEDLMDELLEARSWLADVAEKDPDEDCRTLALRALLLLQ
RLKNRLLPPASP

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# FIGURE 4376

CGCTCCCGCACCGCCATC**ATG**ATCTGCCTGGTGCTGACCATCTTCGCTAACCTCTTCCCCGCGGCCTGCACCGGC
GCACACGAACGCACCTTCCTGGCCGTGAAGCCGGACGGCGTGCAGCGGCGGCTGGTGGGCGAGATTGTGCGGCGC
TTCGAGAGGAAGGGCTTCAAGTTGGTGGCGCTGAAGCTGGTGCAGGCCTCCGAGGAGCTGCTGCGTGAGCACTAC
GCCGAGCTGCGTGAACGCCCGTTCTACGGCCGCCTTGTCAAGTATATGGCCTCCGGGCCGGTGGTGGCCATGGTT
TGGCAGGGGCTGGACGTGGTGCGCACCTCGCGGGCGCTCATCGGAGCCACGAACCCGGCCGACGCCCCGCCCGGC
ACCATCCGCGGGGATTTCTGCATCGAGGTTGGCAAGAACCTGATTCACGGCAGCGACTCGGTGGAGAGTGCCCGC
CGCGAGATCGCTCTCTGGTTCCGCGCAGACGAGCTCCTCTGCTGGGAGGACAGCGCTGGGCACTGGCTGTATGAG
**TAG**CCCGGCAGATGCGCGTCACAGAGGCTCTCACACTCCAGCCTCCTCCAGGGCCCAGGTGGGCGGGCTTCTGGC
CCCACCCCACAGCGCTTGGAGCATCCCTTTGGACGGGCTGCTGAACATCCACCTGTCTGGACGTTGCATGGAGGG
TGGCGCAGGCCTCTCCAATCCCTGGCGTACAGGGTTTCCTGCCCGAGGAGCTGCTCCAGGAGCCTGCGCGGCTCG
CCTGGAAACGTGCCAGGACACTGTCCTGGTGCCCAGCCCAACGTGGTCCAACGTTTTTTTATAATAAAGTCCTCG
TTTTCGTT

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## FIGURE 4377

MICLVLTIFANLFPAACTGAHERTFLAVKPDGVQRRLVGEIVRRFERKGFKLVALKLVQASEELLREHYAELRER
PFYGRLVKYMASGPVVAMVWQGLDVVRTSRALIGATNPADAPPGTIRGDFCIEVGKNLIHGSDSVESARREIALW
FRADELLCWEDSAGHWLYE

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# FIGURE 4378

GCTGAGGACGCGGACCCGCC**ATG**GCGCGGAAGAAGGTGCGTCCGCGGCTGATCGCGGAGCTGGCCCGCCGCGTGC
GCGCCCTGCGGGAGCAACTGAACAGGCCGCGCGACTCCCAGCTCTACGCGGTGGACTACGAGACCTTGACGCGGC
CGTTCTCTGGACGCCGGCTGCCGGTCCGGGCCTGGGCCGACGTGCGCCGCGAGAGCCGCCTCTTGCAGCTGCTCG
GCCGCCTCCCGCTCTTCGGCCTGGGCCGCCTGGTCACGCGCAAGTCCTGGCTGTGGCAGCACGACGAGCCGTGCT
ACTGGCGCCTCACGCGGGTGCGGCCCGACTACACGGCGCAGAACTTGGACCACGGGAAGGCCTGGGGCATCCTGA
CCTTCAAAGGGAAGACTGAGAGCGAGGCGCGGGAGATCGAACACGTCATGTACCATGACTGGCGGCTGGTGCCCA
AGCACGAGGAGGAGGCCTTCACCGCGTTCACGCCGGCGCCGGAAGACAGCCTGGCCTCCGTGCCGTACCCGCCTC
TCCTCCGGGCCATGATTATCGCAGAACGACAGAAAAATGGAGACACAAGCACCGAGGAGCCCATGCTGAATGTGC
AGAGGATACGCATGGAACCCTGGGATTACCCTGCAAAACAGGAAGACAAAGGAAGGGCCAAGGGCACCCCCGTC**T
AG**AATGCCAGAACCAGCGGGTGGCCTTAGGGGCTGTGAGGCAGTGGGGACCTTATTGATGAAAGAAACCGTCTTT
GCGTTACACCCGAGTCTGCCTCTCGGAGCAGGGAGCTCACCTTCCGCGACGTGTTCTGAGGGTCTGCATCTTAGG
GGGGAGGGCTGGGGCAAATCGCCACCTGTGCCTTTCCTCTGGCCCTGCTGCCCCCACACCCAACTCCGAGGGCCC
ACGCTGGGGAAAGCGGGAAGCGCTCGCTCCCTTTCCCCCATTAGTGCTCTCTCTGCCTGGATCCCGGCAGAAGCT
ATGAAAGGGAATAAAGAGAAAGAAGTAAAAAAAAAAAAAAAAAAA

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**FIGURE 4379**

MARKKVRPRLIAELARRVRALREQLNRPRDSQLYAVDYETLTRPFSGRRLPVRAWADVRRESRLLQLLGRLPLFG
LGRLVTRKSWLWQHDEPCYWRLTRVRPDYTAQNLDHGKAWGILTFKGKTESEAREIEHVMYHDWRLVPKHEEEAF
TAFTPAPEDSLASVPYPPLLRAMIIAERQKNGDTSTEEPMLNVQRIRMEPWDYPAKQEDKGRAKGTPV

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# FIGURE 4380

CTGGGAGGCTGACGGCCCGCGGGCGTAAGCGGACTGCAGCCGCGAGCTCCTGGAGGCGGCGGG**ATG**GAGGCGGCG
GCCGAGCCTGGAAACCTGGCCGGCGTCAGGCACATCATCCTGGTCCTCTCAGGAAAGGGGGGCGTTGGGAAAAGC
ACCATCTCCACGGAGCTGGCCCTGGCACTGCGCCATGCAGGCAAGAAGGTGGGAATCCTGGATGTGGACCTGTGT
GGCCCCAGTATACCCCGCATGCTCGGGGCGCAGGGCAGGGCTGTGCACCAGTGCGACCGCGGCTGGGCACCCGTC
TTCCTGGACCGGGAGCAGAGCATCTCGCTCATGTCTGTGGGCTTCCTGCTGGAGAAGCCGGACGAGGCCGTGGTG
TGGAGAGGCCCCAAGAAAAACGCGCTGATAAAGCAGTTTGTGTCCGACGTGGCCTGGGGGGAGCTGGACTACCTG
GTGGTGGACACGCCCCCGGGGACCTCCGATGAGCACATGGCCACCATAGAAGCCCTGCGTCCCTACCAGCCCCTG
GGGGCCCTCGTGGTCACCACGCCCCAGGCGGTGTCCGTGGGGGACGTGAGGCGCGAGCTGACCTTCTGTAGGAAG
ACGGGCTTGCGGGTGATGGGAATCGTGGAGAATATGAGCGGCTTCACCTGCCCACACTGCACGGAGTGCACCAGC
GTCTTCTCCAGGGGCGGCGGAGAGGAGCTGG**C**CCAGCTCGCCGGGGTGCCCTTCTTAGGCTCCGTGCCCCTGGAC
CCTGCGCTCATGAGGACCCTGGAGGAGGGCCACGACTTCATCCAGGAGTTCCCCGGGAGCCCCGCCTTCGCTGCA
CTCACCTCCATAGCCCAGAAGATTCTGGACGCGACGCCCGCGTGCCTCCCC**TGA**CTAAGGCCACCTTGCAGCCGC
TTTCCAGGGCCACCAAGGGCTCTGCTCCAGCCTCTCAGAGAAACAGAGGCCTGGGCTCGGTTCCCGGGCCCTGCA
GGGGCAGGCCCAGGCAGCGTCAGCGGGAGAGCTTCTCCCCGACCAGCCCAGCCCCAGGATGTGTCGCACCAGCAG
CTCTGCCTGGTTGGCCTGCAGTGCCGTGGTCTGCGTGCTCTGCAGCTGTGAGACGGGGGCGGCCTGGGCTCTCTT
CCCATCCATGTTGCCTACCTGTGCCCCTGGCAGCCGCGTGTCCACACAGTTAGCGGAGCGCAGGACTTCTGCAGT
CCTCAGGTGACCCCGGGCCTCCAGCACCCTGGGTCGCTGTCATCTGTGTTTAGCTCGGGGAGTGCCCCCTAAGGG
GGCGAACTGACCTCAGGCATGTCTTGTAACTGTAGAGGCGCCTGCCATTAAACGTGTCCGCTGCTGTGGCGACAG

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# FIGURE 4381

MEAAAEPGNLAGVRHIILVLSGKGGVGKSTISTELALALRHAGKKVGILDVDLCGPSIPRMLGAQGRAVHQCDRG
WAPVFLDREQSISLMSVGFLLEKPDEAVVWRGPKKNALIKQFVSDVAWGELDYLVVDTPPGTSDEHMATIEALRP
YQPLGALVVTTPQAVSVGDVRRELTFCRKTGLRVMGIVENMSGFTCPHCTECTSVFSRGGGEELAQLAGVPFLGS
VPLDPALMRTLEEGHDFIQEFPGSPAFAALTSIAQKILDATPACLP

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## FIGURE 4382

CAAAACACCAA**ATG**GCGGATGACGCCGGTGCAGCGGGGGGGCCCGGGGGCCCTGGTGGCCCTGGGATGGGGAACC
GCGGTGGCTTCCGCGGAGGTTTCGGCAGTGGCATCCGGGGCCGGGGTCGCGGCCGTGGACGGGGCCGGGGCCGAG
GCCGCGGAGCTCGCGGAGGCAAGGCCGAGGATAAGGAGTGGATGCCCGTCACCAAGTTGGGCCGCTTGGTCAAGG
ACATGAAGATCAAGTCCCTGGAGGAGATCTATCTCTTCTCCCTGCCCATTAAGGAATCAGAGATCATTGATTTCT
TCCTGGGGGCCTCTCTCAAGGATGAGGTTTTGAAGATTATGCCAGTGCAGAAGCAGACCCGTGCCGGCCAGCGCA
CCAGGTTCAAGGCATTTGTTGCTATCGGGGACTACAATGGCCACGTCGGTCTGGGTGTTAAGTGCTCCAAGGAGG
TGGCCACCGCCATCCGTGGGGCCATCATCCTGGCCAAGCTCTCCATCGTCCCCGTGCGCAGAGGCTACTGGGGGA
ACAAGATCGGCAAGCCCCACACTGTCCCTTGCAAGGTGACAGGCCGCTGCGGCTCTGTGCTGGTACGCCTCATCC
CTGCACCCAGGGGCACTGGCATCGTCTCCGCACCTGTGCCTAAGAAGCTGCTCATGATGGCTGGTATCGATGACT
GCTACACCTCAGCCCGGGGCTGCACTGCCACCCTGGGCAACTTCGCCAAGGCCACCTTTGATGCCATTTCTAAGA
CCTACAGCTACCTGACCCCCGACCTCTGGAAGGAGACTGTATTCACCAAGTCTCCCTATCAGGAGTTCACTGACC
ACCTCGTCAAGACCCACACCAGAGTCTCCGTGCAGCGGACTCAGGCTCCAGCTGTGGCTACAACA**TAG**GGTTTTT
ATACAAGAAAAATAAAGTGAATTAAGCGTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAA

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## FIGURE 4383

MADDAGAAGGPGGPGGPGMGNRGGFRGGFGSGIRGRGRGRGRGRGRGRGARGGKAEDKEWMPVTKLGRLVKDMKI
KSLEEIYLFSLPIKESEIIDFFLGASLKDEVLKIMPVQKQTRAGQRTRFKAFVAIGDYNGHVGLGVKCSKEVATA
IRGAIILAKLSIVPVRRGYWGNKIGKPHTVPCKVTGRCGSVLVRLIPAPRGTGIVSAEVPKKLLMMAGIDDCYTS
ARGCTATLGNFAKATFDAISKTYSYLTPDLWKETVFTKSPYQEFTDHLVKTHTRVSVQRTQAPAVATT

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# FIGURE 4384

GGGAGTGTGGCGTTCTGTGAAGAGTTCGGTGCTAACCTCCCTCACGCGGCGGTGGCTGCCGGGACCCTAGCAGGT
TTCAGCTGGAGCGGCGGCGGCGGCAAC**ATGG**CAGAGACCGCGGCCGGAGTGGGCCGCTTCAAGACCAACTATGCT
GTGGAGCGCAAAATTGAGCCTTTCTACAAGGGCGGAAAAGCACAGCTGGACCAGACTGGCCAGCACCTCTTCTGC
GTCTGTGGCACCAGAGTCAACATTCTGGAAGTGGCCTCGGGGGCCGTGCTGCGGAGTCTGGAGCAGGAGGACCAG
GAGGACATCACTGCCTTTGACCTCAGCCCTGACAACGAGGTGCTGGTGACAGCCAGTCGGGCATTGCTGCTGGCT
CAGTGGGCCTGGCAAGAGGGCAGCGTTACCCGCCTGTGGAAGGCGATACACACGGCCCCCGTGGCCACCATGGCC
TTCGACCCCACCTCCACTCTGCTAGCCACAGGTGGCTGTGATGGGGCCGTGCGCGTCTGGGACATCGTGCGGCAC
TACGGGACACACCACTTCCGAGGCTCGCCCCGGTGTCGTGCACCTAGTGGCCTTCCACCCGGACCCTACACGCCTG
CTGCTCTTCTCCTCGGCCACGGATGCCGCCATCCGCGTGTGGTCACTGCAGGACCGGTCATGCCTGGCTGTGCTG
ACTGCCCACTACAGCGCCGTCACCTCACTGGCCTTCAGCGCCGACGGCCACACCATGCTCAGCTCCGGCCGTGAC
AAGATATGTATCATCTGGGACCTTCAGAGCTGCCAGGCCACGAGGACCGTGCCTGTGTTTGAGAGCGTGGAGGCT
GCTGTGCTGTTGCCAGAGGAGCCAGTGTCCCAGCTGGGTGTGAAGTCCCCAGGGCTGTACTTTCTGACAGCTGGC
GACCAAGGCACTCTGCGCGTGTGGGAGGCAGCTTCTGGGCAGTGTGTGTACACGCAGGCCCAGCCGCCGGGCCCT
GGGCAGGAGCTGACCCACTGCACCCTGGCACACACCGCCGGCGTGGTCCTCACCGCCACCGCCGACCACAACCTG
TTGCTCTACGAGGCTCGCTCCCTGCGGCTGCAGAAACAGTTCGCTGGCTACAGTGAGGAGGTTTTGGATGTCCGG
TTTCTTGGGCCCGAGGACTCCCACGTTGTCGTGGCCTCCAATAGCCCCTGCCTAAAAGTGTTTGAGCTGCAGACG
TCAGCCTGCCAGATCCTCCACGGCCACACGGATATCGTCCTGGCCCTGGATGTGTTCCGGAAGGGGTGGCTCTTT
GCCAGCTGTGCCAAGGATCAGAGCGTCCGTATCTGGAGAATGAACAAGGCTGGCCAGGTGATGTGCGTGGCTCAG
GGTTCCGGTCACACACACAGTGTGGGCACCGTCTGCTGCTCTAGGCTGAAGGAGTCCTTCCTGGTGACAGGCAGC
CAGGACTGCACTGTGAAGCTGTGGCCTCTTCCCAAAGCCTTGCTGTCCAAGAACACAGCCCCAGACAACGGCCCT
ATCCTCCTGCAGGCCCAGACCACTCAGCGCTGCCATGATAAGGACATCAACAGCGTGGCTATTGCCCCCAACGAC
AAGCTGCTGGCCACAGGCTCACAGGACCGCACGGCCAAGCTCTGGGCCCTGCCACAGTGCCAGCTGCTGGGTGTC
TTCTCAGGCCACCGGCGTGGCCTCTGGTGCGTCCAGTTCTCTCCCATGGACCAGGTGCTGGCCACGGCCTCAGCT
GATGGCACCATCAAGCTCTGGGCACTCCAGGACTTCAGCTGTCTCAAGACATTTGAGGGGCACGATGCTTCTGTG
CTGAAGGTGGCCTTTGTGAGCCGTGGCACGCAGCTGCTGTCCAGCGGTTCGGATGGCCTCGTGAAGCTCTGGACC
ATCAAGAACAACGAGTGTGTGCGGACGCTGGATGCCCACGAGGACAAGGTCTGGGGGCTGCACTGCAGCCGGCTG
GACGACCACGCCCTCACTGGGGCCAGTGACTCCCGAGTCATCCTCTGGAAGGATGTGACCGAGGCGGAGCAGGCA
GAGGAGCAGGCCAGGCAAGAGGAGCAGGTGGTCAGGCAGCAAGAGCTGGACAACCTGCTGCATGAGAAGCGGTAC
CTGCGGGCGCTGGGCCTGGCCATCTCCCTGGATCGGCCCCACACCGTGCTGACTGTCATCCAGGCCATCCGGAGG
GACCCTGAGGCCTGCGAGAAGCTGGAAGCCACCATGCTCCGACTGCGGCGCGACCAGAAAGAGGCCCTGCTGCGC
TTCTGCGTCACGTGGAACACCAACTCGCGGCACTGCCACGAGGCCCAGGCCGTGCTGGGTGTGCTCTTGAGGCGA
GAGGCCCCCGAGGAGCTGCTGGCCTACGAAGGCGTGCGGGCAGCGCTTGAGGCCCTGCTGCCCTACACTGAGCGG
CACTTTCAGCGGCTCAGCAGGACCCTCCAGGCCGCCGCTTTCTTGGACTTCCTGTGGCACAACATGAAGCTCCCT
GTGCCGGCCGCCGCCCCCACCCCCTGGGAAACCCATAAAGGCGCACTGCCC**TAG**CCGGTCCGGCCTCTCTCCAGT
CCATCCTGAACCCCTGGAAAACCCATAAAGGCCGCTCTCCTGGCAAAAAAAAAAAAAAAAAAAAAAAA

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# FIGURE 4385

MAETAAGVGRFKTNYAVERKIEPFYKGGKAQLDQTGQHLFCVCGTRVNILEVASGAVLRSLEQEDQEDITAFDLS
PDNEVLVTASRALLLAQWAWQEGSVTRLWKAIHTAPVATMAFDPTSTLLATGGCDGAVRVWDIVRHYGTHHFRGS
PGVVHLVAFHPDPTRLLLFSSATDAAIRVWSLQDRSCLAVLTAHYSAVTSLAFSADGHTMLSSGRDKICIIWDLQ
SCQATRTVPVFESVEAAVLLPEEPVSQLGVKSPGLYFLTAGDQGTLRVWEAASGQCVYTQAQPPGPGQELTHCTL
AHTAGVVLTATADHNLLLYEARSLRLQKQFAGYSEEVLDVRFLGPEDSHVVVASNSPCLKVFELQTSACQILHGH
TDIVLALDVFRKGWLFASCAKDQSVRIWRMNKAGQVMCVAQGSGHTHSVGTVCCSRLKESFLVTGSQDCTVKLWP
LPKALLSKNTAPDNGPILLQAQTTQRCHDKDINSVAIAPNDKLLATGSQDRTAKLWALPQCQLLGVFSGHRRGLW
CVQFSPMDQVLATASADGTIKLWALQDFSCLKTFEGHDASVLKVAFVSRGTQLLSSGSDGLVKLWTIKNNECVRT
LDAHEDKVWGLHCSRLDDHALTGASDSRVILWKDVTEAEQAEEQARQEEQVVRQQELDNLLHEKRYLRALGLAIS
LDRPHTVLTVIQAIRRDPEACEKLEATMLRLRRDQKEALLRFCVTWNTNSRHCHEAQAVLGVLLRREAPEELLAY
EGVRAALEALLPYTERHFQRLSRTLQAAAFLDFLWHNMKLPVPAAAPTPWETHKGALP

## FIGURE 4386

GGCACGAGGCAAGAGCAAAGGGGCCAGCACCCCCGCTGCCTCCACGCTGCCCACCGCCAACGGGGCCCGACCGGC
GCGCTCCGGGACTGCGCTTTCCGGCCCCGACGCGCCGCCCAACGGGCCTTGCAGCCCGGCCGGCCCTCGCTTGGC
GGCGGTGTCGACTTCTACGACGTCGCCTTCAAGGT**CATG**CTGGTGGGGGACTCGGGTGTGGGGAAGACCTGTCTG
CTGGTGCGATTCAAGGATGGTGCTTTCCTGGCGGGGACCTTCATCTCCACCGTAGGCATTGACTTCCGGAACAAA
GTTCTGGACGTGGATGGTGTGAAGGTGAAGCTGCAGATGTGGGACACAGCTGGTCAGGAGCGGTTCCGCAGTGTT
ACCCATGCCTACTACCGGGATGCTCATGCTCTGCTGCTGCTCTACGATGTCACCAACAAGGCCTCCTTTGACAAC
ATCCAGGCCTGGCTGACCGAGATCCACGAGTACGCCCAGCACGACGTGGCGCTCATGCTGCTGGGGAACAAGGTG
GACTCTGCCCATGAGCGTGTGGTGAAGAGGGAGGACGGGGAGAAGCTGGCCAAGGAGTATGGACTGCCCTTCATG
GAGACCAGCGCCAAGACGGGCCTCAACGTGGACTTGGCCTTCACAGCCATAGCAAAGGAGTTGAAGCAGCGCTCC
ATGAAGGCTCCCAGCGAGCCGCGCTTCCGGCTGCATGATTACGTTAAGAGGGAGGGTCGAGGGGCCTCCTGCTGC
CGCCCT**TGA**ACCTGGCTGAGCTCAGTCCTCTGGAGGAAGCCGCCCAGTCCCTAGAAGGCTGGACAGAGGGTCTCC
AGGCCCTTCTGACTTTGTTGCCCAGTGGCCAACGCCCGAGTGTCTGTTTTCAGGAGCCCCAGGTCAAGCCTTGTC
CCTTCCTCCTCCCAGCAACAGTCCCAACAAGCAGGCTTCTGAGAGCCCGTGGCCGCACACTGGCCGCCACGGAAA
AGCAGTCTTCTGCACGGGACGGGGAGCGGCAAGTGGACAGACTTTGCCACGGTGCTCTGCTGCCCCCTCCTGGGC
ACGTCCAGGTGAGGGAGGGCTGGGGCTGGCACCACGCACAGTGCCTAACCCTAGAAAAGCCATGTCTTCAGCCGC
ACATGCTCAGGCAGCTAAGGGAGGACGCCTGCCCACGCCTGGGACAGAAGGCTTCACTGCTAATCACATCGTGCA
TCTGTGTGTCCTGGGAGCTGCCTGCTCCCGGCCCACCCTCTAGGAGGCTCTGGCTCAAACAGCAATAGGGTCTTC
CTCACTGACCTTGGAGGATGCCTGTGGCCTTGTGATAAAATGTGGGAAATCACAGAAAACACCAGAAACAACAAC
TGCCAGCCCGGCCTGGCCACAGGTGAGGTCTGTGATTTCCGAGCACGCTCCACCTTGCACTCAACTTGGCCTTTT
GATTGCACAAGCCTTTGTTTTCAGTCCTAGTGAATAAAGTTGTGTTTTCTGGAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAA

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**FIGURE 4387**

MLVGDSGVGKTCLLVRFKDGAFLAGTFISTVGIDFRNKVIDVDGVKVKLQMWDTAGQERFRSVTHAYYRDAHALL
LLYDVTNKASFDNIQAWLTEIHEYAQHDVALMLLGNKVDSAHERVVKREDGEKLAKEYGLPFMETSAKTGLNVDL
AFTAIAKELKQRSMKAPSEPRFRLHDYVKREGRGASCCRP

## FIGURE 4388

GGGCGGGAGGTGCTTCCCAAGGACCGTAGATGCCTCTCTAGAGCATGAGCTCAGGCAAGAGTGCCCGCTACAACC
GCTTCTCCGGGGGGCCCAGCAATCTTCCCACCCCAGACGTCACCACAGGGACCAGAATGGAAACGACCTTCGGAC
CCGCCTTTTCAGCCGTCACCACCATCACAAAAGCTGACGGGACCAGCACCTACAAGCAGCACTGCAGGACAGC**AT**
**G**CCCCCCATCAGCACTCCCCGCCGCTCCGACTCCGCCATCTCTGTCCGCTCCCTGCACTCAGAGTCCAGCATGTC
TCTGCGCTCCACATTCTCACTGCCCGAGGAGGAGGAGGAGCCGGAGCCACTGGTGTTTGCGGAGCAGCCCTCGGT
GAAGCTGTGCTGTCAGCTCTGCTGCAGCGTCTTCAAAGACCCCGTGATCACCACGTGTGGGCACACGTTCTGTAG
GAGATGCGCCTTGAAGTCAGAGAAGTGTCCCGTGGACAACGTCAAACTGACCGTGGTGGTGAACAACATCGCGGT
GGCCGAGCAGATCGGGGAGCTCTTCATCCACTGCCGGCACGGCTGCCGGGTAGCGGGCAGCGGGAAGCCCCCCAT
CTTTGAGGTGGACCCCCGAGGGTGCCCCTTCACCATCAAGCTCAGCGCCCGGAAGGACCACGAGGGCAGCTGTGA
CTACAGGCCTGTGCGGTGTCCCAACAACCCCAGCTGCCCCCCGCTGCTCAGGATGAACCTGGAGGCCCACCTCAA
GGAGTGCGAGCACATCAAATGCCCCCACTCCAAGTACGGGTGCACGTTCATCGGGAACCAGGACACTTACGAGAC
CCACCTGGAGACTTGCCGCTTCGAGGGCCTGAAGGAGTTTCTGCAGCAGACGGATGACCGCTTCCACGAGATGCA
CGTGGCTCTGGCCCAGAAGGACCAGGAGATCGCCTTCCTGCGCTCCATGCTGGGAAAGCTCTCGGAGAAGATCGA
CCAGCTAGAGAAGAGCCTGGAGCTCAAGTTTGACGTCCTGGACGAAAACCAGAGCAAGCTCAGCGAGGACCTCAT
GGAGTTCCGGCGGGACGCATCCATGTTAAATGACGAGCTGTCCCACATCAACGCGCGGCTGAACATGGGCATCCT
AGGCTCCTACGACCCTCAGCAGATCTTCAAGTGCAAAGGGACCTTTGTGGGCCACCAGGGCCCTGTGTGGTGTCT
CTGCGTCTACTCCATGGGTGACCTGCTCTTCAGTGGCTCCTCTGACAAGAGCATCAAGGTGTGGGACACATGTAC
CACCTACAAGTGTCAGAAGACACTGGAGGGCCATGATGGCATCGTGCTGGCTCTCTGCATCCAGGGGTGCAAACT
CTACAGCGGCTCTGCAGACTGCACCATCATTGTGTGGGACATCCAGAACCTGCAGAAGGTGAACACCATCCGGGC
CCATGACAACCCGGTGTGCACGCTGGTCTCCTCACACAACGTGCTCTTCAGCGGCTCCCTGAAGGCCATCAAGGT
CTGGGACATCGTGGGCACTGAGCTGAAGTTGAAGAAGGAGCTCACAGGCCTCAACCACTGGGTGCGGGCCCTGGT
GGCTGCCCAGAGCTACCTGTACAGCGGCTCCTACCAGACAATCAAGATCTGGGACATCCGAACCCTTGACTGCAT
CCACGTCCTGCAGACGTCTGGTGGCAGCGTCTACTCCATTGCTGTGACAAATCACCACATTGTCTGTGGCACCTA
CGAGAACCTCATCCACGTGTGGGACATTGAGTCCAAGGAGCAGGTGCGGACCCTCACGGGCCACGTGGGCACCGT
GTATGCCCTGGCGGTCATCTCGACGCCAGACCAGACCAAAGTCTTCAGTGCATCCTACGACCGGTCCCTCAGGGT
CTGGAGTATGGACAACATGATCTGCACGCAGACCCTGCTGCGTCACCAGGGCAGTGTCACCGCGCTGGCTGTGTC
CCGGGGCCGACTCTTCTCAGGGGCTGTGGATAGCACTGTGAAGGTTTGGACTTGC**TAA**CAGGATCCAGGCCAGGC
TGTGGTTTCCCCTGAACCAGCCCTGGACCTTTCTGAGCCAGGCTGGCCACATGGGGTGGTCTCGGGGTTTCTGCC
TGCCCCGTGGGCATAGGTGGACAGGCTCTGGCAGCCGGGCAGTGCCCTCCCCGTCCCATGCTCGGCGAGCCTCCC
TCTACTCGGCACTGTCCTTGCTGCCCAGCCCCTCTCTGGGTGCCAGGTACGACGCTTGCCCCGGCCCACCCTCCA
TCCCCACCCTCCATCCCCACCCTAGATGGAGCGAGGGCCTTTTTACTCACCTTTTCTACCGTTTTTAGACTGTAT
GTAGATTTGGTTACCTCCTGGTTGAAATAAATGCTCCACAGACTGTGGCTGTGAGTGGGGACAGCTCCTCGGGAC
AAGGGGGCTGTGTGTGGCCTTGAGGTTGGTGTGCACAGGCACTGGCTGCTGTGAGTGGGGGGGCATGGGGCAGTT
TCCTTTGGTGGACCCCAGGACTTCGGCCCACTCCGGGGCCTCCCCTCCCTGCTAGGAGGCAACTCGTCACACCCA
AGCTGCTGGCCTCCAGTCCCATCTCCCCCAACACATGTGCCCCCAAAAAGTGAGCCAGGCACCTCTGTTTCCTGC
TGTTTATTGACAGCCGACGGCAGCGCCTTGCCCAGACCTCCCCTGCCCACCTGCTGGAGCCCAGCCTGTGCCGCC
CTCTGAGGAGAGGCCTGGGGGGACAGCTGGGCACGTCCACTCGCAGGGAAACACGGGGTGAGACAGCAGGAAGGG
GCCCTGCACGCCGGGACGCCACCTCCGCCAGCCGCCTCCACCCGCCCCACACCACAATCGCTGGTTTTCGGCATT
TTTTAAATTTTTTTTTAAGAAACGTCAAAGTTGTGCCCAACACTGTGGATCAGCAAACACGATAGAGGAGACCA
GTCAGTACTTCTTGGAGGGGGCAGGAGGAGAGAGGAAAAGGGAGGGCGAGAATGACCACACAACACAGCCTTGGA
CCATGAGCAGAAGCGTCCGTGGGAACTCCACTGGGGTGGATGGGCTGCCTGCACAGCCCCTGGAGAGGGGCCAG
GCACACCCTCAGAGGAGCTGCAAGCCCGTGGCCTGGCCTGCTACATGCCCTGCTTCCACGTGGCTGCCACGCTGA
CACACCCACATTCACCAAACCCACCCGCGCCCTGGGACGCAGCCACGCCAGGAGGAGGACACGGCCGCCGAGAGC
AAGGCACAACCTCGAGTTCTTGGGGCGCAGAGAACTTAGGAGAGAAGCACGGAGGAGCCCCCGGCAGAGCACCCG
CCCCCGGGCCCCAGCCTTCCACCTGTGCTAGCAGCCTGGGGCCTCCACTCTGGCCGGAGGAAGGACCGCAGGCAG
ACAGCCTGGGCCTCTAACAGCTTTTGTCCGGAGCTAGACTTCGTGTCCTTTCAGTTGGTAAATGGTTTTCTATAG
AATCAATAATATTTCTTTCTTTAAATATATATTTGTTAAAGTTATACCTTTTTGTTTCTCTGGGGAAATCCGCCT
CAGCTCATTCCCAATAAATTAATACTCTTGATAAAAAAAAAAAAAAAAGAAAAAAAAAAA

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# FIGURE 4389

MPPISTPRRSDSAISVRSLHSESSMSLRSTFSLPEEEEEPEPLVFAEQPSVKLCCQLCCSVFKDPVITTCGHTFC
RRCALKSEKCPVDNVKLTVVVNNIAVAEQIGELFIHCRHGCRVAGSGKPPIFEVDPRGCPFTIKLSARKDHEGSC
DYRPVRCPNNPSCPPLLRMNLEAHLKECEHIKCPHSKYGCTFIGNQDTYETHLETCRFEGLKEFLQQTDDRFHEM
HVALAQKDQEIAFLRSMLGKLSEKIDQLEKSLELKFDVLDENQSKLSEDLMEFRRDASMLNDELSHINARLNMGI
LGSYDPQQIFKCKGTFVGHQGPVWCLCVYSMGDLLFSGSSDKTIKVWDTCTTYKCQKTLEGHDGIVLALCIQGCK
LYSGSADCTIIVWDIQNLQKVNTIRAHDNPVCTLVSSHNVLFSGSLKAIKVWDIVGTELKLKKELTGLNHWVRAL
VAAQSYLYSGSYQTIKIWDIRTLDCIHVLQTSGGSVYSIAVTNHHIVCGTYENLIHVWDIESKEQVRTLTGHVGT
VYALAVISTPDQTKVFSASYDRSLRVWSMDNMICTQTLLRHQGSVTALAVSRGRLFSGAVDSTVKVWTC

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# FIGURE 4390

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AGCCCGCGACCTTTATCCCGCGCGTTGCGGTCAAGATGGCGCTGGTGGCTTCTGTTGCGAGTCCGGCGCGCGTTC
TGCTCCGCGCGGGGGCCCGGCTCCCGGGCGCGGCCCTCGGGCGGACGGAGCGGGCGGCCGGCGGCGGAGACGGCG
CGCGGCGCTTCGGGAGCCAGCGGGTGCTGGTGGAGCCGGACGCGGGCGCAGGGGTCGCTGTGATGAAATTCAAGA
ACCCCCCAGTGAACAGCCTGAGCCTGGAGTTTCTGACGGAGCTGGTCATCAGCCTGGAGAAGCTGGAGAATGACA
AGAGCTTCCGCGGTGTCATTCTGACCTCGGACCGCCCGGGTGTCTTCTCGGCCGGCCTGGACCTGACGGAGATGT
GTGGGAGGAGCCCCGCCCACTACGCTGGGTACTGGAAGGCCGTTCAGGAGCTGTGGCTGCGGTTGTACCAGTCCA
ACCTGGTGCTGGTCTCCGCCATCAACGGAGCCTGCCCCGCTGGAGGCTGCCTGGTGGCCCTGACCTGTGACTACC
GCATCCTGGCGGACAACCCCAGGTACTGCATAGGACTCAATGAGACCCAGCTGGGCATCATCGCCCCTTTCTGGT
TGAAAGACACCCTGGAGAACACCATCGGGCACCGGGCGGCGGAGCGTGCCCTGCAGCTGGGGCTGCTCTTCCCGC
CGGCGGAGGCCCTGCAGGTGGGCATAGTGGACCAGGTGGTCCCGGAGGAGCAGGTGCAGAGCACTGCGCTGTCAG
CGATAGCCCAGTGGATGGCCATTCCAGACCATGCTCGACAGCTGACCAAGGCCATGATGCGAAAGGCCACGGCCA
GCCGCCTGGTCACGCAGCGCGATGCGGACGTGCAGAACTTCGTCAGCTTCATCTCCAAAGACTCCATCCAGAAGT
CCCTGCAGATGTACTTAGAGAGGCTCAAAGAAGAAAAAGGCTAACGATTGGGCTGCCACAGGCTTACGGCCACAC
GTGCCCCTGTGGGTCCCAGGGAGGTCTTAAACAAGGTATTTTTCAACTT
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# FIGURE 4391

MALVASVRVPARVLLRAGARLPGAALGRTERAAGGGDGARRFGSQRVLVEPDAGAGVAVMKFKNPPVNSLSLEFL
TELVISLEKLENDKSFRGVILTSDRPGVFSAGLDLTEMCGRSPAHYAGYWKAVQELWLRLYQSNLVLVSAINGAC
PAGGCLVALTCDYRILADNPRYCIGLNETQLGIIAPFWLKDTLENTIGHRAAERALQLGLLFPPAEALQVGIVDQ
VVPEEQVQSTALSAIAQWMAIPDHARQLTKAMMRKATASRLVTQRDADVQNFVSFISKDSIQKSLQMYLERLKEE
KG

# FIGURE 4392

GGCCCGCGGGACTCAGACCAGCGGGGAGCGCGGCCTCCGCCCTTGGGGCCCTCCCGCCGGGCCGGAGACCCAAGC
CCCCAACGCCAGGCCCTGCCCTGGAAGCGCTCGCGGCCCGGCGCCTGGACGGGGGAGTTGCTGCTCTTTGGCGTA
AATTGCAATCGATTAGGGATCGTTTCTCAGAATCAAGTTAGAAGTGAGAGTTCAGATAAGTGAGGCCGCCATTGC
TGCTTTGAACACCTCAGAAGGGGAGA**ATG**GATTTATCAGGAGTGAAAAAGAAGAGCTTGCTAGGAGTCAAAGAAA
ATAATAAAAAGTCCAGCACTAGGGCTCCTTCACCTACCAAACGCAAAGACCGCTCAGATGAGAAGTCCAAGGATC
GCTCAAAAGATAAAGGGGCCACCAAGGAGTCGAGTGAGAAGGATCGCGGCCGGGACAAAACCCGAAAGAGGCGCA
GCGCTTCCAGTGGTAGCAGCAGTACCAGGTCTCGGTCCAGCTCGACTTCCAGCTCAGGCTCCAGCACCAGCACTG
GCTCAAGCAGTGGCTCCAGCTCTTCCTCAGCATCCAGCCGCTCAGGAAGCTCCAGCACCTCCCGCAGCTCCAGCT
CTAGCAGCTCTTCTGGCTCTCCAAGTCCTTCTCGGCGCAGACACGACAACAGGAGGCGCTCCCGCTCCAAATCCA
AACCACCTAAAAGAGATGAAAAGGAGAGGAAAAGGCGGAGCCCATCTCCTAAGCCCACCAAAGTGCACATTGGGA
GACTCACCCGGAATGTGACAAAGGATCACATCATGGAGATATTTTCCACCTATGGGAAAATTAAAATGATTGACA
TGCCCGTGGAAAGGATGCATCCCCATCTGTCCAAAGGCTATGCGTACGTAGAGTTTGAGAATCCAGATGAAGCCG
AGAAGGCGCTGAAGCACATGGATGGAGGACAAATTGATGGCCAGGAGATCACTGCCACCGCCGTGCTGGCCCCCT
GGCCTAGGCCACCCCCCAGGAGATTCAGCCCTCCCAGGAGAATGTTGCCACCACCGCCTATGTGGCGCAGGTCTC
CCCCACGGATGAGGAGAAGGTCCCGCTCCCCGAGGCGCAGGTCCCCCGTGCGCCGGAGATCACGGTCCCCGGGCC
GCCGCCGCCACAGGAGCCGCTCCAGCTCCAACTCCTCCCGA**TAA**ACAGGCCACTGAAGCTCTCGCCCCTGTAACT
TATACCCCACCCAGCTCAGTTTTGTCACTTTTCTAGCCAAAGGAAGACCAGTAGGAAAGCAAACCCTTGACTCTG
GCAGGATTTGCAGGCAGCAGGCAGCACCCCTCTGCCAGCCGGGCCCCGGCTGCAGAAGTGCTGTTGGTTTGGATG
CTGTGTGCCTGTCAAGATTCCCTCCGGTTTTCTGGCTAGAAAGCTCATCCGTTTCCGGTTTCTAAGAGTCAGTTC
AGTGGCAGAGCCACCAGGGAAAAGTGAGGCTCTTGGGGGTGGTTTGACCCTGCTTACCTGGGAGCACACTTTTCC
CTTCCCCGATGACCTGGGATGGTGGCCAGGCCGTGCCCTTGCTGTTGCTGGGCAGTGTCCTTTTGGAAAGGGAGC
TGCCCCAGGCTTTAGTGCAGCTGCCAACCCTGTTAGGCCTGGCCTCTCGAGGCCTCTTCTGACCTCAAGGGTCAC
ACCCCCTCAAAGATCCTCTCACCCATGGTAGTTGCTGCTCGTGGTTCTGTCTGTCCGTGCACCGATGCACACACC
GCACCCCACCACTGTACTCTGAAATTGGCGAGTGAGTGGAGAGCCAGCTCTGCGGAGTCATCACGCAGCCATGGT
TGTGCCTGCCGTTCATGGTGGTCTTTCAGGTTATCTTGGCAACATGTACATTGCTTTTATTTTTTTCTTTTTTG
CTTTCATTGTACAGTCAGTACTATAAAATTTCTCTTTTGAGTTTTATACCTTTGTAGCATTTTAGATGACATTGT
GTTTGTACTTTGTTGTGTAGAGTGGAAGAATTGTGTTGAATAAACCCAAGATCGGAATGCAAAAAAAAAAAAAAA
AAAAAAAAAAAA

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# FIGURE 4393

MDLSGVKKKSLLGVKENNKKSSTRAPSPTKRKDRSDEKSKDRSKDKGATKESSEKDRGRDKTRKRRSASSGSSST
RSRSSSTSSSGSSTSTGSSSGSSSSSASSRSGSSSTSRSSSSSSSSSGSPSPSRRHDNRRRSRSKSKPPKRDEKE
RKRRSPSPKPTKVHIGRLTRNVTKDHIMEIFSTYGKIKMIDMPVERMHPHLSKGYAYVEFENPDEAEKALKHMDG
GQIDGQEITATAVLAPWPRPPPRRFSPPRRMLPPPPMWRRSPPRMRRRSRSPRRRSPVRRRSRSPGRRRHRSRSS
SNSSR

# FIGURE 4394

GAGCGGCGCCGGCCTCGGCGGCTGAGGAAAGCAGGAGGAGGTGGCGGCGGCGGGAAGATGCTGCTCTTTGGCGTA
AATTGCAATCGATTAGGGATCGTTTCTCAGAATCAAGTTAGAAGTGAGAGTTCAGATAAGTGAGGCCGCCATTGC
TGCTTTGAACACCTCAGAAGGGGAGA**ATG**GATTTATCAGGAGTGAAAAAGAAGAGCTTGCTAGGAGTCAAAGAAA
ATAATAAAAAGTCCAGCACTAGGGCTCCTTCACCTACCAAACGCAAAGACCGCTCAGATGAGAAGTCCAAGGATC
GCTCAAAAGATAAAGGGGCCACCAAGGAGTCGAGTGAGAAGGATCGCGGCCGGGACAAAACCCGAAAGAGGCGCA
GCGCTTCCAGTGGTAGCAGCAGTACCAGGTCTCGGTCCAGCTCGACTTCCAGCTCAGGCTCCAGCACCAGCACTG
GCTCAAGCAGTGGCTCCAGCTCTTCCTCAGCATCCAGCCGCTCAGGAAGCTCCAGCACCTCCCGCAGCTCCAGCT
CTAGCAGCTCTTCTGGCTCTCCAAGTCCTTCTCGGCGCAGACACGACAACAGGAGGCGCTCCCGCTCCAAATCCA
AACCACCTAAAAGAGATGAAAAGGAGAGGAAAAGGCGGAGCCCATCTCCTAAGCCCACCAAAGTGCACATTGGGA
GACTCACCCGGAATGTGACAAAGGATCACATCATGGAGATATTTTCCACCTATGGGAAAATTAAAATGATTGACA
TGCCCGTGGAAAGGATGCATCCCCATCTGTCCAAAGGCTATGCGTACGTAGAGTTTGAGAATCCAGATGAAGCCG
AGAAGGCGCTGAAGCACATGGATGGAGGACAAATTGATGGCCAGGAGATCACTGCCACCGCCGTGCTGGCCCCCT
GGCCTAGGCCACCCCCCAGGAGATTCAGCCCTCCCAGGAGAATGTTGCCACCACCGCCTATGTGGCGCAGGTCTC
CCCCACGGATGAGGAGAAGGTCCCGCTCCCCGAGGCGCAGGTCCCCCGTGCGCCGGAGATCACGGTCCCCGGGCC
GCCGCCGCCACAGGAGCCGCTCCAGCTCCAACTCCTCCCGA**TAA**ACAGGCCACTGAAGCTCTCGCCCCTGTAACT
TATACCCCACCCAGCTCAGTTTTGTCACTTTTCTAGCCAAAGGAAGACCAGTAGGAAAGCAAACCCTTGACTCTG
GCAGGATTTGCAGGCAGCAGGCAGCACCCCTCTGCCAGCCGGGCCCCGGCTGCAGAAGTGCTGTTGGTTTGGATG
CTGTGTGCCTGTCAAGATTCCCTCCGGTTTTCTGGCTAGAAAGCTCATCCGTTTCCGGTTTCTAAGAGTCAGTTC
AGTGGCAGAGCCACCAGGGAAAAGTGAGGCTCTTGGGGGTGGTTTGACCCTGCTTACCTGGGAGCACACTTTTCC
CTTCCCCGATGACCTGGGATGGTGGCCAGGCCGTGCCCTTGCTGTTGCTGGGCAGTGTCCTTTTGGAAAGGGAGC
TGCCCCAGGCTTTAGTGCAGCTGCCAACCCTGTTAGGCCTGGCCTCTCGAGGCCTCTTCTGACCTCAAGGGTCAC
ACCCCCTCAAAGATCCTCTCACCCATGGTAGTTGCTGCTCGTGGTTCTGTCTGTCCGTGCACCGATGCACACACC
GCACCCCACCACTGTACTCTGAAATTGGCGAGTGAGTGGAGAGCCAGCTCTGCGGAGTCATCACGCAGCCATGGT
TGTGCCTGCCGTTCATGGTGGTCTTTCAGGTTATCTTGGCAACATGTACATTGCTTTTATTTTTTTTCTTTTTTG
CTTTCATTGTACAGTCAGTACTATAAAATTTCTCTTTTGAGTTTTATACCTTTGTAGCATTTTAGATGACATTGT
GTTTGTACTTTGTTGTGTAGAGTGGAAGAATTGTGTTGAATAAACCCAAGATCGGAATGCAAAAAAAAAAAAAAA
AAAAAAAAAAAA

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# FIGURE 4395

MDLSGVKKKSLLGVKENNKKSSTRAPSPTKRKDRSDEKSKDRSKDKGATKESSEKDRGRDKTRKRRSASSGSSST
RSRSSSTSSSGSSTSTGSSSGSSSSSASSRSGSSSTSRSSSSSSSSSGSPSPSRRRHDNRRRSRSKSKPPKRDEKE
RKRRSPSPKPTKVHIGRLTRNVTKDHIMEIFSTYGKIKMIDMPVERMHPHLSKGYAYVEFENPDEAEKALKHMDG
GQIDGQEITATAVLAPWPRPPPRRFSPPRRMLPPPPMWRRSPPRMRRRSRSPRRRSPVRRRSRSPGRRRHRSRSS
SNSSR

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**FIGURE 4396**

GCGAGGTTCTGCGCGGGCGCGGAAGACGGGCGGCGCGTGGCGGAAGGGTTCGGGACGGTACGCACCAGCCACCTT
CGCGCCGAAGGCGGTAGGGCGCCACGGAGAGGAACCGCTCTAGGCACGTAAGGCCTCGTGAGGTTGCGTCGCGCG
CGGAGCACTCTGGGACTTGTAGTTCTGGAGATGGAGCGAGCTGTGCCGCTCGCGGTGCCTCTGGGTCAGAGGTGT
TCCAGGCCTTGCAGCGGCTCCAT**ATG**ACCATCTTCTCCCAGAGCGTCTCACCATGTGGGAAGTTTCTGGCGGCTG
GCAACAATTACGGGCAGATTGCCATCTTCAGCTTGTCCTCTGCTTTGAGCTCAGAAGCCAAAGAGGAAAGTAAGA
AGCCGGTGGTGACTTTCCAAGCCCATGATGGGCCCGTCTATAGCATGGTTTCCACCGATCGACATCTGCTTAGTG
CTGGGGATGGGGAGGTGAAGGCCTGGCTTTGGGCGGAGATGCTCAAGAAGGGCTGTAAGGAGCTGTGGCGTCGTC
AGCCTCCATACAGGACCAGCCTGGAAGTGCCTGAGATCAACGCTTTGCTGCTGGTCCCCAAGGAGAATTCCCTCA
TCCTGGCTGGGGGAGACTGTCAGTTGCACACTATGGACCTTGAAACTGGGACTTTCACGAGGGTCCTCCGGGGCC
ACACAGACTACATCCACTGCCTGGCACTGCGGGAAAGGAGCCCAGAGGTGCTGTCAGGTGGCGAGGATGGAGCTG
TTCGACTTTGGGACCTGCGCACAGCCAAGGAGGTCCAGACGATCGAGGTCTATAAGCACGAGGAGTGCTCGAGGC
CCCACAATGGGCGCTGGATTGGATGTTTGGCAACTGATTCCGACTGGATGGTCTGTGGAGGGGGCCCAGCCCTCA
CCCTCTGGCACCTCCGATCCTCCACACCCACCACCATCTTCCCCATCCGGGCGCCACAGAAGCACGTCACCTTCT
ACCAGGACCTGATTCTGTCAGCTGGCCAGGGCCGCTGCGTCAACCAGTGGCAGCTGAGCGGGGAGCTGAAGGCCC
AGGTGCCTGGCTCCTCCCCAGGGCTGCTCAGCCTCAGCCTCAACCAGCAGCCTGCCGCGCCTGAGTGCAAGGTCC
TGACAGCTGCAGGCAACAGCTGCCGGGTGGATGTCTTCACCAACCTGGGTTACCGAGCCTTCTCCCTGTCCTTC**T**
**GA**TCTCTGACGACACCCCCAGCCAGCTCAGGGTTTTAGAGTGTTTTTCATTTTCTTTTTTTTTTTTTTACAATAA
AGTTTCAGGCTTTTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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# FIGURE 4397

MTIFSQSVSPCGKFLAAGNNYGQIAIFSLSSALSSEAKEESKKPVVTFQAHDGPVYSMVSTDRHLLSAGDGEVKA
WLWAEMLKKGCKELWRRQPPYRTSLEVPEINALLLVPKENSLILAGGDCQLHTMDLETGTFTRVLRGHTDYIHCL
ALRERSPEVLSGGEDGAVRLWDLRTAKEVQTIEVYKHEECSRPHNGRWIGCLATDSDWMVCGGGPALTLWHLRSS
TPTTIFPIRAPQKHVTFYQDLILSAGQGRCVNQWQLSGELKAQVPGSSPGLLSLSLNQQPAAPECKVLTAAGNSC
RVDVFTNLGYRAFSLSF

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## FIGURE 4398

GCGGCGGGCGCAGACAGCGGCGGGCGCAGGACGTGCACT**ATG**GCTCGGGGCTCGCTGCGCCGGTTGCTGCGGCTC
CTCGTGCTGGGGCTCTGGCTGGCGTTGCTGCGCTCCGTGGCCGGGGAGCAAGCGCCAGGCACCGCCCCCTGCTCC
CGCGGCAGCTCCTGGAGCGCGGACCTGGACAAGTGCATGGACTGCGCGTCTTGCAGGGCGCGACCGCACAGCGAC
TTCTGCCTGGGCTGCGCTGCAGCACCTCCTGCCCCCTTCCGGCTGCTTTGGCCCATCCTTGGGGGCGCTCTGAGC
CTGACCTTCGTGCTGGGGCTGCTTTCTGGCTTTTTGGTCTGGAGACGATGCCGCAGGAGAGAGAAGTTCACCACC
CCCATAGAGGAGACCGGCGGAGAGGGCTGCCCAGCTGTGGCGCTGATCCAG**TGA**CAATGTGCCCCCTGCCAGCCG
GGGCTCGCCCACTCATCATTCATTCATCCATTCTAGAGCCAGTCTCTGCCTCCCAGACGCGGCGGGAGCCAAGCT
CCTCCAACCACAAGGGGGGTGGGGGGCGGTGAATCACCTCTGAGGCCTGGGCCCAGGGTTCAGGGGAACCTTCCA
AGGTGTCTGGTTGCCCTGCCTCTGGCTCCAGAACAGAAAGGGAGCCTCACGCTGGCTCACACAAAACAGCTGACA
CTGACTAAGGAACTGCAGCATTTGCACAGGGGAGGGGGGTGCCCTCCTTCCTTAGGACCTGGGGGCCAGGCTGAC
TTGGGGGGCAGACTTGACACTAGGCCCCACTCACTCAGATGTCCTGAAATTCCACCACGGGGGTCACCCTGGGGG
GTTAGGGACCTATTTTTAACACTAGGGGCTGGCCCACTAGGAGGGCTGGCCCTAAGATACAGACCCCCCCAACTC
CCCAAAGCGGGGAGGAGATATTTATTTTGGGGAGAGTTTGGAGGGGAGGGAGAATTTATTAATAAAAGAATCTTT
AACTTTAAAAAAAAAAAAAAAAAA

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# FIGURE 4399

MARGSLRRLLRLLVLGLWLALLRSVAGEQAPGTAPCSRGSSWSADLDKCMDCASCRARPHSDFCLGCAAAPPAPF
RLLWPILGGALSLTFVLGLLSGFLVWRRCRRREKFTTPIEETGGEGCPAVALIQ

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# FIGURE 4400

GGCACGAGGATCTCCTTCGCAGTGCAGCTCCTTCAACCTCGCC**ATG**GCCTCTGCCGGAATGCAGATCCTGGGAGT
CGTCCTGACACTGCTGGGCTGGGTGAATGGCCTGGTCTCCTGTGCCCTGCCCATGTGGAAGGTGACCGCTTTCAT
CGGCAACAGCATCGTGGTGGCCCAGGTGGTGTGGGAGGGCCTGTGGATGTCCTGCGTGGTGCAGAGCACCGGCCA
GATGCAGTGCAAGGTGTACGACTCACTGCTGGCGCTGCCACAGGACCTGCAGGCTGCACGTGCCCTCTGTGTCAT
CGCCCTCCTTGTGGCCCTGTTCGGCTTGCTGGTCTACCTTGCTGGGGGCCAAGTGTACCACCTGTGTGGAGGAGAA
GGATTCCAAGGCCCGCCTGGTGCTCACCTCTGGGATTGTCTTTGTCATCTCAGGGGTCCTGACGCTAATCCCCGT
GTGCTGGACGGCGCATGCCGTCATCCGGGACTTCTATAACCCCCTGGTGGCTGAGGCCCAAAAGCGGGAGCTGGG
GGCCTCCCTCTACTTGGGCTGGGCGGCCTCAGGCCTTTTGTTGCTGGGTGGGGGGTTGCTGTGCTGCACTTGCCC
CTCGGGGGGGTCCCAGGGCCCCAGCCATTACATGGCCCGCTACTCAACATCTGCCCCTGCCATCTCTCGGGGGCC
CTCTGAGTACCCTACCAAGAATTACGTC**TGA**CGTGGAGGGGAATGGGGGCTCCGCTGGCGCTAGAGCCATCCAGA
AGTGGCAGTGCCCAACAGCTTTGGGATGGGTTCGTACCTTTTGTTTCTGCCTCCTGCTATTTTTCTTTTGACTGA
GGATATTTAAAATTCATTTGAAAACTGAGCCAAGGTGTTGACTCAGACTCTCACTTAGGCTCTGCTGTTTCTCAC
CCTTGGATGATGGAGCCAAAGAGGGGATGCTTTGAGATTCTGGATCTTGACATGCCCATCTTAGAAGCCAGTCAA
GCTATGGAACTAATGCGGAGGCTGCTTGCTGTGCTGGCTTTGCAACAAGACAGACTGTCCCCAAGAGTTCCTGCT
GCTGCTGGGGGCTGGGCTTCCCTAGATGTCACTGGACAGCTGCCCCCCATCCTACTCAGGTCTCTGGAGCTCCTC
TCTTCACCCCTGGAAAAACAAATGATCTGTTAACAAAGGACTGCCCACCTCCGGAACTTCTGACCTCTGTTTCCT
CCGTCCTGATAAGACGTCCACCCCCCAGGGCCAGGTCCCAGCTATGTAGACCCCCGCCCCCAGCTCCAACACTGC
ACCCTTCTGCCCTGCCCCCCTCGTCTCACCCCCTTTACACTCACATTTTTATCAAATAAAGCATGTTTTGTTAGT
GCAAAAAAAAAAAAAAAAAAAA

# FIGURE 4401

MASAGMQILGVVLTLLGWVNGLVSCALPMWKVTAFIGNSIVVAQVVWEGLWMSCVVQSTGQMQCKVYDSLLALPQ
DLQAARALCVIALLVALFGLLVYLAGAKCTTCVEEKDSKARLVLTSGIVFVISGVLTLIPVCWTAHAVIRDFYNP
LVAEAQKRELGASLYLGWAASGLLLLGGGLLCCTCPSGGSQGPSHYMARYSTSAPAISRGPSEYPTKNYV

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# FIGURE 4402

CAGGACTCCCGTGAGGGGGAACGGCCCGTGAACGCGCGCGGAGCTGCTCGCGCCCCGCCCAGTCGCCCCAGGGCT
TCCCCACACCCACGGAGTGAAGTCAGCCGCGGCCCTGCCTGGGAGGAACTTACCGTCTACCGGGAAAGGTGGCCA
GCAGATGTGTCGGGCCTGGTGAGAGGGTGAGGCGAGACGGCCCGATCGCCCAGGGCCCCGGAAGCTGCGGAGGTC
ACCCCCGCCTGGCCTTAGCTCAGGGACACCCTGGATTCACGTGGGAGCCCCTGCTCCTGCCTCCCCCGTCCCACC
ACTGAAGCTGTTGGGCCAGGCCAGTC<u>ATG</u>CTAGAACGGCCTCCTGCACTGGCCATGCCCATGCCCACGGAGGGCA
CCCCGCCACCTCTGAGTGGCACCCCCATCCCAGTCCCAGCCTACTTCCGCCACGCAGAACCTGGATTCTCCCTCA
AGAGGCCCAGGGGGCTCAGCCGGAGCCTCCCACCTCCGCCCCCTGCCAAGGGCAGCATTCCCATCAGCCGCCTCT
TCCCTCCTCGGACCCCAGGCTGGCACCAGCTGCAGCCCCGGCGGGTGTCATTCCGGGGCGAGGCCTCAGAGACTC
TGCAGAGCCCTGGGTATGACCCAAGCCGGCCAGAGTCCTTCTTCCAGCAGAGCTTCCAGAGGCTCAGCCGCCTGG
GCCATGGCTCCTACGGAGAGGTCTTCAAGGTGCGCTCCAAGGAGGACGGCCGGCTCTATGCGGTAAAGCGTTCCA
TGTCACCATTCCGGGGCCCCAAGGACCGGGCCCGCAAGTTGGCCGAGGTGGGCAGCCACGAGAAGGTGGGGCAGC
ACCCATGCTGCGTGCGGCTGGAGCAGGCCTGGGAGGAGGGCGGCATCCTGTACCTGCAGACGGAGCTGTGCGGGC
CCAGCCTGCAGCAACACTGTGAAGCCTGGGGTGCCAGCCTGCCTGAGGCCCAGGTCTGGGGCTACCTGCGGGACA
CGCTGCTTGCCCTGGCCCATCTGCACAGCCAGGGCCTGGTGCACCTTGATGTCAAGCCTGCCAACATCTTCCTGG
GGCCCCGGGGCCGCTGCAAGCTGGGTGACTTCGGACTGCTGGTGGAGCTGGGTACAGCAGGAGCTGGTGAGGTCC
AGGAGGGAGACCCCCGCTACATGGCCCCCGAGCTGCTGCAGGGCTCCTATGGGACAGCAGCGGATGTGTTCAGTC
TGGGCCTCACCATCCTGGAAGTGGCATGCAACATGGAGCTGCCCCACGGTGGGGAGGGCTGGCAGCAGCTGCGCC
AGGGCTACCTGCCCCCTGAGTTCACTGCCGGTCTGTCTTCCGAGCTGCGTTCTGTCCTTGTCAT<u>GATG</u>CTGGAGC
CAGACCCCAAGCTGCGGGCCACGGCCGAGGCCCTGCTGGCACTGCCTGTGTTGAGGCAGCCGCGGGCCTGGGGTG
TGCTGTGGTGCATGGCAGCGGAGGCCCTGAGCCGAGGGTGGGCCCTGTGGCAGGCCCTGCTTGCCCTGCTCTGCT
GGCTCTGGCATGGGCTGGCTCACCCTGCCAGCTGGCTACAGCCCCTGGGCCCGCCAGCCACCCCGCCTGACTCAC
CACCCTGCAGTTTGCTCCTGGACAGCAGCTTCTCCAGCAACTGGGATGACGACAGCCTAGGGCCTTCACTCTCCC
CTGAGGCTGTCCTGGCCCGGACTGTGGGGAGCACCTCCACCCCCCGGAGCAGGTGCACACCCAGGGATGCCCTGG
ACCTAAGTGACATCAACTCAGAGCCTCCTCGGGGCTCCTTCCCCTCCTTTGAGCCTCGGAACCTCCTCAGCATGT
TTGAGGACACCCTAGACCCAACC<u>TGA</u>GCCCCAGATTCTGCCTCTGCACTTTTAACCTTTTATCCTGTGTCTCTCC
CGTCGCCCTTGAAAGCTGGGGCCCCTCGGGAACTCCCATGGTCTTCTCTGCCTGGCCGTGTCTAATAAAAAGTAT
TTGAACCTTGAAAAAAAAAAAGAAG

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## FIGURE 4403

MLERPPALAMPMPTEGTPPPLSGTPIPVPAYFRHAEPGFSLKRPRGLSRSLPPPPPAKGSIPISRLFPPRTPGWH
QLQPRRVSFRGEASETLQSPGYDPSRPESFFQQSFQRLSRLGHGSYGEVFKVRSKEDGRLYAVKRSMSPFRGPKD
RARKLAEVGSHEKVGQHPCCVRLEQAWEEGGILYLQTELCGPSLQQHCEAWGASLPEAQVWGYLRDTLLALAHLH
SQGLVHLDVKPANIFLGPRGRCKLGDFGLLVELGTAGAGEVQEGDPRYMAPELLQGSYGTAADVFSLGLTILEVA
CNMELPHGGEGWQQLRQGYLPPEFTAGLSSELRSVLVMMLEPDPKLRATAEALLALPVLRQPRAWGVLWCMAAEA
LSRGWALWQALLALLCWLWHGLAHPASWLQPLGPPATPPDSPPCSLLLDSSFSSNWDDDSLGPSLSPEAVLARTV
GSTSTPRSRCTPRDALDLSDINSEPPRGSFPSFEPRNLLSMFEDTLDPT

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# FIGURE 4404

GGCCACCGCCGCCGCCGCCGCCGCGAGCTGTCCCTGCGGCGCGTCTGCCTTGGCGGAGCCGACCGCAGTGCGCTC
AGGCGTCCGGTGCGTCCCCAGCCTCCGCCCCGGCGCGGGGGCGACGGACTCGCGCGTGCGCAGCGCCGGAGGGGC
GCGGGCTGGGACCCCCTAGCCAGCGCGTGCGCCGATCGAGCGCAGGGCGATGGGTGGGCGCCGGGCGCCGGGCGC
CAGGCAGTGATGGGCCTTCCCGCGCTGCGGCCCCACTGAGGAGGAGGCTCGGGGACAGCAGGAGCACGGGCTGCC
CGCGCGGTGCGGACC**ATG**GCGTTCCTGGCCGGGCCGCGCCTGCTGGACTGGGCCAGCTCGCCGCCGCACCTGCAG
TTCAATAAGTTCGTGCTGACCGGGTACCGGCCCGCCAGCAGCGGCTCGGGCTGCCTGCGCAGCCTCTTCTACCTG
CACAACGAACTGGGCAACATCTACACGCACGGGCTGGCCCTGCTGGGCTTCCTGGTGCTGGTGCCAATGACCATG
CCCTGGGGTCAGCTGGGCAAGGATGGCTGGCTGGGAGGCACACATTGCGTGGCCTGCCTTGCACCCCCTGCAGGC
TCCGTGCTCTATCACCTCTTTATGTGCCACCAAGGGGGCAGCGCTGTGTACGCCCGGCTCCTCGCCCTGGACATG
TGTGGGGTCTGCCTTGTCAACACCCTTGGGGCCCTGCCCATCATCCACTGCACCCTGGCCTGCAGGCCCTGGCTG
CGCCCGGCTGCCCTGGTGGGCTACACTGTGTTGTCGGGTGTGGCCGGCTGGCGTGCTCTCACCGCCCCCTCCACC
AGTGCTCGGCTCCGGGCATTTGGATGGCAGGCTGCTGCCCGCCTACTGGTATTTGGGGCCCGGGGAGTGGGTCTG
GGTTCAGGGGCTCCAGGCTCCCTGCCCTGCTACCTGCGCATGGACGCACTGGCGCTGCTTGGGGGACTGGTAAAT
GTAGCCCGTCTGCCCGAGCGCTGGGGACCTGGCCGCTTTGACTACTGGGGCAACTCCCACCAGATCATGCACCTG
CTGAGCGTGGGCTCCATCCTGCAGCTGCACGCCGGCGTCGTGCCCGACCTGCTCTGGGCTGCCCACCACGCCTGT
CCCCGGGAC**TGA**GCTGCCATGCCAGCCTGCCCACAGCAGCCTCCTAGAGTTAGCAACACCAGGTGTTCCTCCCAA
CTCGTCTGCAAGGGGCTGGCTCCTTGGATGCTTCCAGCTCATGAGATGTCTCAGCAGGAGCCCTGTTCACCCGTT
CTTCCCTGTGGACTGACCTCTTCCACCCACGCCGTGGCGCTCCAACTTCCTTCCCTGCCTTTTCCCTCCAAGCTC
CTATTTTACTGTGTCAGCTGGAAGGAAACCTTTCCCTCTTGGGACCTCTTTACCCTCTGTGACCTGTGGGGTTAG
ACCAGAGAGGGACTCTGGGGTCACGTCTTGCTCTGAGAGTTCAAGTCCTGCCAGGCCGCCAGCCCAGAGCCTCCT
CACCCTATCCTGTTCCTCCCACCAGGCCTGTGGCCAGTCTTCCTGATCTCCATCTTTCTGCCCTGCATACCAGCC
CTCCCAGCAGCCACAAGCTTGCCCGCCCTGGCTCCCTCTGCCCAGAGACTATGGAGTAAGGCATTCAGGACAAAA
GGACCAAGGGGGCGTGGACCCGTCTTGTACCAGCTGGCCACAGGCACAAGGGCTGCAGCTGCTTCTTCCAGGAAA
CTGACACAGGGAGCTCAGCGGCCTCAGATCCTGGGACCCCTGGGCCGTGCCTGCCCTCCACCTTGAGTGCCATAC
TCCCAACAGCTCCAGGTACCCACCGGGGGATGTGCCTGCTCAGGAAACCTCTTTGCTCCACACAGCATGGGGCTT
CAGCTGCTGGCCCAAGGCCAGGAGCGCTGGGTTCTGCAGCAGGGCTCAGCCTCAGGGGCGTTAAGACCCTGGATG
ACATCAATAAAGGGACAGGAAGGGCCATGTTGCCACATGAGCAAGCTTGGGTGCTCCCAAGGTTCAAATACTTTT
TATTAGACACGGCCAGGCAGAGAAGACCATGGGAGTTCCCGAGGGGCCCCAGCTTTCAAGGGCGACGGGAGAGAC
ACAGGATAAAAGGTTAAAAGTGCAGAGGCAGAGTCTGGGGCTCAGGTTGGGTCTAGGGTGTCCTCAAACAGGCTG
AGGAGGTTCCGAGGCTCAAAGGAGGGGAAGGAGCCCCGAGGAGGCTCTGAGTTGATGTCACTTAGGTCCAGGGCA
TCCCTGGGAGGAGAGAGTAGTGACACTCAGGATCCAAAAGCTAGCCCTGCCCACCCCAGCCCCTGGACCTGCTTA
CCTGGGTGTGCACCTGCTCCGGGGGGTGGAGGTGCTCCCCACAGTCCGGGCCAGGACAGCCTCAGGGGAGAGTGA
AGGCCTGCAGGAGGGCAGGCGAGACAAGGAGGGTGTCCAGGGCTAGGGAGTGCCGGATGAAACCAGCTCTGTCCC
TGTGCAGGCTCCAGGCTCCCGCCTGACAAACAGGCAGGGAGCCACAGTCAGGGACAATAAAAACTTGGTGCACTC
TGAAAGCAGCACTTGGACAGCCTTCAAAGTCCTTCCATCTGGCTGCACTCCAAGGCCCCCTCTGTCCTTTTCAGA
ACACATGGACTTGGAGGCAGATTTGAAATAAACTTTTAGTAAATGT

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# FIGURE 4405

MAFLAGPRLLDWASSPPHLQFNKFVLTGYRPASSGSGCLRSLFYLHNELGNIYTHGLALLGFLVLVPMTMPWGQL
GKDGWLGGTHCVACLAPPAGSVLYHLFMCHQGGSAVYARLLALDMCGVCLVNTLGALPIIHCTLACRPWLRPAAL
VGYTVLSGVAGWRALTAPSTSARLRAFGWQAAAARLLVFGARGVGLGSGAPGSLPCYLRMDALALLGGLVNVARLP
ERWGPGRFDYWGNSHQIMHLLSVGSILQLHAGVVPDLLWAAHHACPRD

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# FIGURE 4406

GGGAGACTGTCAGAGGACAACGCCCCCTAGGTCTCCTGGGAGACCCCGAAGCGACCCCGGGGGCAGCCCGGGCCG
TGTCCGGGCGAGGGTGACCTATCCTTGGTTGAGAGCGATGGGGACACAAGCCCTGCAGGGCTTCCTCTTTCTCCT
CTTCCTCCCGCTGCTGCAGCCGCGTGGGGCCTCGGCTGGGAGCCTGCACAGTCCAGGCCTGTCCGAATGCTTCCA
GGTGAATGGGGCTGACTACCGCGGCCACCAGAACCGCACTGGCCCGCGCGGGGCGGGCCGCCCGTGCCTCTTCTG
GGACCAGACGCAGCAACACAGCTACAGCAGCGCCAGCGACCCCCACGGCCGCTGGGGGCTGGGCGCGCACAACTT
CTGCCGTAACCCAGACGGTGACGTGCAGCCGTGGTGCTACGTGGCTGAGACAGAGGAGGGCATCTACTGGCGCTA
CTGCGACATCCCCTCCTGTCACATGCCAGGCTACCTGGGATGCTTTGTGGACTCAGGGGCACCCCCAGCCCTCAG
CGGCCCCAGCGGCACCTCCACGAAGCTCACGGTCCAGGTGTGCCTACGCTTCTGCCGCATGAAGGGGTACCAGCT
GGCGGGCGTGGAGGCCGGTTACGCCTGCTTCTGTGGCTCTGAAAGCGACCTGGCCCGGGGACGCCTGGCCCCCGC
CACCGACTGTGACCAGATCTGTTTCGGCCACCCTGGACAGCTGTGTGGCGGCGATGGGCGGCTGGGCGTCTATGA
AGTGTCGGTGGGCTCCTGCCAGGGGAACTGGACAGCGCCTCAGGGCGTCATCTACTCCCCGGACTTCCCGGACGA
GTACGGGCCGGACCGGAACTGCAGCTGGGCCCTGGGCCCGCCAGGCGCCGCGCTGGAGCTCACCTTCCGCCTCTT
CGAGCTGGCCGACCCGCGCGACCGGCTGGAGCTGCGCGACGCGGCTTCGGGCAGCCTGCTCCGCGCCTTCGATGG
CGCCCGCCCACCGCCGTCCGGGCCGCTGCGCCTGGGCACTGCCGCGCTGCTGCTCACCTTCCGAAGCGACGCGCG
CGGCCACGCGCAAGGCTTCGCGCTCACCTACCGCGGGCTGCAGGACGCCGCTGAGGACCCAGAGGCCCCCGAGGG
CTCGGCCCAGACCCCCGCGGCGCCCCTCGACGGGGCCAACGTGAGCTGCAGCCCCAGGCCTGGGGCTCCGCCGGC
CGCGATTGGGGGAGCTGTCTGCTGGCTCCGGGAAAAGGGCCCCGGCGCTGGGGGCTTCCAGGGGCCCCAGGAGA
AGCTGGGCTGTGTGGTACCAACAGCCCCGAGGGGTGGCCTTGCCCTGCTCCCCGGGGACCCCCAGGCTGAGGGT
TCTGCCGCGGGCTACCGGCCTCTGAGTGCCTCCAGCCAGAGCTCCCTGCGCTCGCTCATCTCCGCTCTCTGACTC
TGGGCCCCGAGGGTCCGCTGGGCCCGCCGCCGGCGAGATGGACACCTGAGATGCTGTGCTGCGCCCTGCCTCGGC
CTTGCGCCTGTGTAGGGGCAGCTCGGCCTCTGGTCGCCTTGGGGAGACCAAAAGTCGGACAGGAAACATCGGTG
CTATTATCTGGGACTTGGCCTGACCGTGGGGGTCCAGATGGTCCAGGCCCTCTCCATGGACCTGTATGTGGGGGT
GGTCTCTGGTTTCGGAGGTCTTTGAACCCCTCTGGGGGTGGTCCTGGACTGCCGTCCTCAGTGAGAGGTCACAGG
TCAGCAAAAACAGTCAAAAAACCCCCACAGATTTTGAATAAAGGATCTACTTTGGTAAAAAAAAAAAAAAAAAAA

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# FIGURE 4407

MGTQALQGFLFLLFLPLLQPRGASAGSLHSPGLSECFQVNGADYRGHQNRTGPRGAGRPCLFWDQTQQHSYSSAS
DPHGRWGLGAHNFCRNPDGDVQPWCYVAETEEGIYWRYCDIPSCHMPGYLGCFVDSGAPPALSGPSGTSTKLTVQ
VCLRFCRMKGYQLAGVEAGYACFCGSESDLARGRLAPATDCDQICFGHPGQLCGGDGRLGVYEVSVGSCQGNWTA
PQGVIYSPDFPDEYGPDRNCSWALGPPGAALELTFRLFELADPRDRLELRDAASGSLLRAFDGARPPPSGPLRLG
TAALLLTFRSDARGHAQGFALTYRGLQDAAEDPEAPEGSAQTPAAPLDGANVSCSPRPGAPPAAIGGAVCWLREK
GPRRWGLPGAPGEAGLCGTNSPEGWPCPAPPGTPRLRVLPRATGL

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## FIGURE 4408

GCTGGGAGTAGAGGGCAGAGCTCCCACCCCGCCCCGCCCCCAGGGGGCGCCCCGGGCCCGGCGCGAGAGGAGGCA
GAGGGGGCGTCAGGCCGCGGGAGAGGAGGCC<u>ATG</u>GCGCGCGCGGGGCGCTGCTGCTGGCGCTGCTGCTGGCTCG
GGCTGGACTCAGGAAGCCGGAGTCGCAGGAGGCGGCGCCGTTATCAGGACCATGCGGCCGACGGGTCATCACGTC
GCGCATCGTGGGTGGAGAGGACGCCGAACTCGGGCGTTGGCCGTGGCAGGGGAGCCTGCGCCTGTGGGATTCCCA
CGTATGCGGAGTGAGCCTGCTCAGCCACCGCTGGGCACTCACGGCGGCGCACTGCTTTGAAACCTATAGTGACCT
TAGTGATCCCTCCGGGTGGATGGTCCAGTTTGGCCAGCTGACTTCCATGCCATCCTTCTGGAGCCTGCAGGCCTA
CTACACCCGTTACTTCGTATCGAATATCTATCTGAGCCCTCGCTACCTGGGGAATTCACCCTATGACATTGCCTT
GGTGAAGCTGTCTGCACCTGTCACCTACACTAAACACATCCAGCCCATCTGTCTCCAGGCCTCCACATTTGAGTT
TGAGAACCGGACAGACTGCTGGGTGACTGGCTGGGGGTACATCAAAGAGGATGAGGCACTGCCATCTCCCCACAC
CCTCCAGGAAGTTCAGGTCGCCATCATAAACAACTCTATGTGCAACCACCTCTTCCTCAAGTACAGTTTCCGCAA
GGACATCTTTGGAGACATGGTTTGTGCTGGCAATGCCCAAGGCGGGAAGGATGCCTGCTTCGGTGACTCAGGTGG
ACCCTTGGCCTGTAACAAGAATGGACTGTGGTATCAGATTGGAGTCGTGAGCTGGGGAGTGGGCTGTGGTCGGCC
CAATCGGCCCGGTGTCTACACCAATATCAGCCACCACTTTGAGTGGATCCAGAAGCTGATGGCCCAGAGTGGCAT
GTCCCAGCCAGACCCCTCCTGGCCGCTACTCTTTTTCCCTCTTCTCTGGGCTCTCCCACTCCTGGGGCCGGTC<u>TG</u>
<u>A</u>GCCTACCTGAGCCCATGCAGCCTGGGGCCACTGCCAAGTCAGGCCCTGGTTCTCTTCTGTCTTGTTTGGTAATA
AACACATTCCAGTTGATGCCTTGCAGGGCATTCTTCAAAA

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# FIGURE 4409

MGARGALLLALLLARAGLRKPESQEAAPLSGPCGRRVITSRIVGGEDAELGRWPWQGSLRLWDSHVCGVSLLSHR
WALTAAHCFETYSDLSDPSGWMVQFGQLTSMPSFWSLQAYYTRYFVSNIYLSPRYLGNSPYDIALVKLSAPVTYT
KHIQPICLQASTFEFENRTDCWVTGWGYIKEDEALPSPHTLQEVQVAIINNSMCNHLFLKYSFRKDIFGDMVCAG
NAQGGKDACFGDSGGPLACNKNGLWYQIGVVSWGVGCGRPNRPGVYTNISHHFEWIQKLMAQSGMSQPDPSWPLL
FFPLLWALPLLGPV

# FIGURE 4410A

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GCAGCGCGGCCCAGGCGGGGTGCGAGTGGCGCAGTTGGAGCCCGTTGCGGCCCCTGAGGAAGCGAGGAGGCGTCG
GCGTCGGCTGAGGCGGGCGGACCGGCGAGGCGAGGCGGCGGCCCCAGGCCCGAGGGACTCGGGAGCTCGAGCAGC
GGCGGCGGCAAGACCTCTCCCCCTCGGAGGCGGCGGGCGGAGGCGGCGGGAGCGGTGGTGCCCCCCCCGGGCACG
GGGCCATGTACAACGGGATCGGGCTGCCGACGCCCCGGGGCAGCGGCACCAACGGCTACGTCCAGCGCAACCTGT
CCCTGGTGCGGGGCCGCCGGGGTGAGCGGCCTGACTACAAGGGAGAGGAGGAACTGCGGCGCCTGGAGGCTGCCC
TGGTGAAGCGGCCTAATCCTGACATCCTGGACCACGAGCGCAAGCGGCGCGTCGAGCTGCGATGCCTCGAGCTGG
AGGAGATGATGGAAGAGCAGGGGTACGAGGAACAGCAAATTCAGGAAAAAGTGGCGACCTTTCGACTCATGTTGC
TGGAGAAGGATGTGAACCCTGGGGGCAAGGAGGAGACCCCAGGGCAGAGGCCAGCGGTCACGGAGACTCACCAGT
TGGCAGAATTAAATGAGAAGAAGAATGAAAGACTCCGTGCTGCCTTTGGCATCAGTGATTCTTACGTAGATGGCA
GCTCTTTTGATCCTCAGCGTCGTGCCCGAGAAGCTAAACAACCAGCTCCTGAGCCTCCCAAACCTTACAGCCTTG
TTCGGGAGTCTAGCAGTTCTCGCTCACCAACCCCAAAGCAGAAGAAGAAGAAAAAGAAGAAAGATAGAGGACGCA
GGTCAGAGAGCAGCTCTCCTCGACGGGAGAGAAAGAAAAGCTCAAAGAAGAAGAAGCACAGGTCAGAATCTGAGT
CCAAGAAACGTAAGCATAGGTCTCCCACTCCAAAGAGCAAACGTAAATCTAAGGACAAAAAGCGAAAGCGGTCTC
GAAGTACAACACCAGCCCCCAAGAGCCGCCGGGCCCACCGTTCAACTTCTGCTGACTCTGCTTCCTCCTCCGATA
CTTCCCGCAGTCGGTCTCGAAGTGCTGCAGCTAAAACTCATACAACTGCCTTGGCTGGGCGAAGTCCTTCCCCTG
CTTCAGGGCGACGCGGGGAGGGAGATGCGCCTTTCAGTGAACCAGGTACTACCAGCACACAACGGCCTAGTAGCC
CGGAGACTGCTACGAAACAGCCTAGCAGCCCTTATGAAGACAAAGATAAAGACAAGAAGGAGAAATCTGCAACTC
GACCTAGCCCCTCTCCGGAAAGGAGCAGCACAGGCCCAGAACCACCTGCTCCCACTCCGCTCCTTGCTGAGCGAC
ATGGCGGCTCCCCACAACCCCTTGCAACCACCCCCTTAAGCCAGGAGCCAGTGAACCCCCCATCTGAGGCCTCTC
CAACTCGGGACCGTTCACCACCTAAGTCTCCCGAGAAACTTCCCCAGTCTTCTTCCTCAGAGAGCAGCCCACCAT
CCCCTCAACCTACCAAAGTTTCTCGGCATGCCAGCTCTTCCCCAGAAAGTCCTAAACCTGCTCCAGCTCCAGGGT
CCCACCGAGAGATTCTTCTTCTCCCACATCTAAGAATCGCTCACATGGCCGAGCAAAACGGGATAAATCACATT
CTCATACCCCCTCCCGTAGGATGGGGAGGTCCCGTAGCCCTGCCACCGCTAAGAGAGGGCGATCTCGGTCTCGAA
CCCCTACCAAGAGAGGTCATTCTCGATCCCGATCTCCCCAGTGGCGTAGGTCCAGGTCTGCACAGAGGTGGGGAA
GATCTAGAAGCCCCCAGCGACGTGGCCGCTCTAGGTCTCCTCAGCGACCAGGCTGGTCTAGGAGCAGAAATACCC
AGAGAAGAGGCAGGTCTAGGTCAGCAAGGCGAGGGAGGTCCCACTCTAGATCCCCAGCCACTAGGGGTAGATCTC
GTTCTAGAACACCAGCCCGCCGGGGCAGGTCCCGCTCTAGAACACCTGCCAGGCGGAGATCACGATCCAGAACTC
CCACCAGGCGTAGGTCTCGGTCTAGAACACCAGCCCGGAGGGGCAGGTCTCGGTCTAGAACACCTGCTAGGCGCA
GATCTAGGACCCGATCACCAGTACGACGCAGGTCTCGTAGTAGATCACCAGCCAGGAGAAGTGGCAGGTCACGCT
CTAGAACCCCAGCTAGACGTGGCCGCTCACGCTCCAGAACCCCAGCCAGACGTGGCCGCTCACGCTCTAGAACCC
CAGCTAGACGCAGTGGTCGCTCACGCTCCAGAACACCAGCCAGGAGAGGGAGGTCTCGGTCTAGGACACCAAGAC
GAGGAAGATCCCGCAGTAGAAGCTTAGTTAGACGTGGAAGATCTCACTCTAGAACACCTCAAAGAAGAGGCAGAT
CTGGCTCATCTTCAGAGCGGAAAAACAAATCCAGAACATCTCAAAGAAGAAGCAGGTCCAATTCAAGCCCAGAAA
TGAAGAAATCTCGCATTTCTTCAAGGCGGAGCAGGTCTCTCTCTTCACCACGGTCCAAAGCAAAATCTCGCTTGT
CTTTGAGGCGCAGCCTTTCAGGGTCTTCCCCATGCCCTAAACAAAAGTCACAGACACCACCCAGGCGCAGTCGCT
CTGGATCCTCCCAACCTAAAGCTAAATCTAGAACGCCACCCAGACGCAGTCGCTCCAGTTCTTCTCCGCCACCTA
AACAGAAATCTAAGACACCATCAAGACAAAGTCATTCCAGTTCATCTCCTCATCCTAAAGTGAAATCTGGAACAC
CACCGAGGCAAGGGTCCATAACAAGTCCCCAGGCCAATGAGCAATCTGTAACGCCACAGAGACGGAGCTGTTTTG
AATCATCACCTGACCCTGAGTTGAAATCTAGGACCCCTTCTAGACATAGCTGCTCAGGGTCCTCTCCTCCTAGAG
TGAAATCTAGCACACCTCCCAGACAGAGCCCATCTAGGTCATCATCTCCACAACCCAAAGTGAAGGCAATAATAT
CACCAAGACAAAGAAGCCATTCTGGCTCCTCTTCTCCAAGTCCTAGTAGGGTGACGTCGAGAACAACTCCACGGC
GAAGCAGATCAGTATCTCCCTGCTCCAATGTGGAATCCAGATTGTTGCCAAGATACAGTCATTCTGGGTCCTCCT
CACCAGATACCAAAGTGAAACCTGAAACACCGCCAAGACAAAGTCACTCAGGGTCTATTTCACCATACCCCAAAG
TAAAGGCCCAAACTCCACCGGGGCCAAGTCTTTCTGGATCAAAGTCACCATGTCCCCAAGAGAAGTCTAAAGACT
CACTAGTTCAAAGTTGCCCTGGATCCCTCTCTCTGTGCAGGAGTAAAATCTAGCACACCACCAGGCGAGAGCT
ATTTTGGTGTCTCATCTCTGCAACTGAAAGGACAATCTCAAACTTCACCAGACCACAGATCTGATACTTCAAGTC
CAGAAGTGAGACAGAGTCATTCAGAATCACCATCTCTGCAGAGCAAATCTCAAACATCACCTAAGGGAGGTCGGT
CCAGGTCTTCATCTCCAGTCACTGAGCTGGCATCCAGATCTCCAATAAGACAAGATAGAGGTGAGTTCTCAGCGA
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4781/6881
**FIGURE 4410B**

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GTCCTATGTTGAAATCTGGAATGTCTCCTGAGCAGAGCAGGTTCCAGTCTGACTCTTCTTCATATCCTACAGTGG
ACTCGAATTCTCTCTTGGGGCAGAGTAGATTGGAGACTGCTGAATCAAAAGAGAAAATGGCCTTACCCCCTCAGG
AGGATGCTACTGCATCACCTCCTAGACAGAAAGACAAATTTAGTCCCTTTCCAGTACAGGATAGGCCTGAGTCTT
CACTGGTATTCAAAGACACACTTAGAACCCCGCCAAGGGAAAGAAGTGGTGCTGGGTCATCTCCAGAAACAAAAG
AGCAAAATAGTGCATTGCCTACGTCAAGCCAAGATGAAGAGTTAATGGAGGTGGTAGAGAAGTCTGAAGAACCCG
CAGGCCAAATCCTGTCTCATTTGTCTTCAGAACTTAAAGAAATGTCCACAAGTAACTTTGAATCATCTCCTGAAG .
TAGAAGAAAGGCCTGCTGTGTCTTTGACTCTTGATCAGAGCCAGTCACAGGCTTCTTTGGAAGCAGTAGAAGTCC
CTTCAATGGCCTCATCTTGGGGTGGGCCACATTTTTCTCCAGAACATAAAGAACTGTCTAACTCCCCACTCAGGG
AGAACAGCTTTGGATCACCTTTAGAATTTAGAAACTCAGGCCCACTTGGTACAGAAATGAATACTGGATTTTCTT
CTGAGGTTAAAGAAGATTTGAATGGACCGTTTCTTAATCAGCTGGAAACAGATCCATCTCTAGACATGAAAGAAC
AATCGACAAGATCCTCTGGACACAGCAGTTCTGAGTTATCCCCAGATGCAGTGGAAAAGGCAGGGATGTCTTCAA
ATCAGAGCATCTCTTCACCTGTGCTTGATGCTGTACCCAGAACACCCTCGAGAGAAAGAAGTAGTTCTGCATCTT
CTCCTGAAATGAAAGATGGTTTACCCAGAACTCCATCAAGGAGAAGCAGGTCTGGGTCTTCTCCAGGACTTAGAG
ATGGGTCTGGGACTCCCTCGAGGCACAGCCTGTCTGGGTCCTCTCCTGGAATGAAAGATATACCTAGAACGCCAT
CTAGAGGGAGAAGCGAATGTGATTCTTCCCCAGAACCGAAAGCTTTGCCTCAGACTCCTAGGCCGAGGAGTCGTT
CTCCATCATCCCCAGAGCTCAACAACAAGTGTCTTACCCCCCAGAGAGAAAGAAGCGGGTCAGAATCATCAGTTG
ATCAGAAAACTGTGGCTCGGACTCCCCTGGGGCAGAGAAGTCGTTCGGGATCCTCTCAAGAACTTGATGTGAAAC
CCAGTGCATCCCCTCAGGAAAGAAGTGAGTCAGACTCTTCTCCAGATTCTAAAGCCAAGACAAGAACCCCACTTC
GGCAGAGGAGTCGGTCTGGATCATCTCCAGAGGTTGACAGCAAATCTCGACTATCCCCTCGGCGCAGTAGGTCTG
GTTCCTCCCCTGAAGTGAAAGATAAGCCAAGAGCAGCACCCAGGGCACAGAGTGGTTCTGATTCCTCTCCTGAAC
CTAAAGCTCCAGCCCCTCGGGCCCTTCCCAGACGAAGCAGATCAGGTTCATCAAGCAAAGGCAGAGGCCCTTCTC
CTGAAGGAAGCAGCAGTACCGAGTCCTCTCCTGAACATCCGCCCAAATCCAGAACTGCTCGCAGAGGTTCCAGGT
CATCACCAGAGCCCAAGACCAAGTCTCGTACACCACCTCGACGTCGCAGCTCTCGATCATCTCCGGAGCTAACAA
GGAAGGCCAGACTGTCCCGTAGAAGCCGCTCTGCCTCATCCTCACCAGAAACTCGCTCTAGAACTCCCCCAAGGC
ACCGGAGAAGTCCCTCAGTGTCTTCCCCGGAGCCAGCCGAAAAATCGAGGTCTTCACGCCGACGGCGCTCAGCTT
CATCTCCACGCACTAAGACAACCTCAAGGAGAGGCCGCTCTCCTTCGCCAAAGCCTCGTGGACTCCAGAGGTCCC
GTTCCCGCTCAAGGAGAGAGAAAACAAGAACAACCCGACGTCGAGATAGGTCTGGATCTTCTCAGTCAACCTCTC
GGCGAAGACAGCGGAGCCGGTCAAGGTCGCGGGTTACTCGGCGGCGGAGGGGAGGCTCTGGTTATCACTCAAGGT
CACCTGCCCGGCAGGAAAGTTCCCGGACCTCCTCTCGACGCCGAAGAGGCCGCTCTCGGACACCCCCAACCAGTC
GGAAGCGTTCTCGCTCACGCACATCACCAGCCCCGTGGAAACGCTCTAGATCTCGAGCCTCTCCAGCCACTCACC
GGCGATCCAGGTCCAGAACCCCCCTGATAAGCCGACGTAGGTCCAGATCTCGAACTTCACCAGTCAGCCGGAGAC
GGTCAAGGTCCAGGACTTCAGTGACTCGACGAAGATCCCGGTCAAGAGCATCCCCAGTGAGCAGAAGGCGATCCA
GATCCAGAACGCCACCAGTAACCCGCCGTCGTTCAAGGTCTAGAACGCCAACAACACGCCGCCGCTCCCGTTCTA
GAACTCCACCAGTGACTCGCAGAAGGTCCAGATCCAGGACTCCACCAGTAACCAGGAGGCGATCTCGAAGCAGAA
CTTCGCCTATCACTCGCAGAAGATCAAGATCCAGAACATCTCCGGTCACCCGAAGGAGATCTCGATCTCGCACAT
CTCCAGTAACTCGAAGAAGGTCCCGCTCTCGAACCTCACCAGTGACACGCCGCCGCTCTAGGTCCCGGACACCTC
CAGCACAGGATCAGCCGAGGTCTCCTGTGCCTTCTGCTTTTTCAGACCAATCCCGTTGTTTGATTGCCCAGACCA
CCCCTGTAGCAGGGTCTCAGTCCCTTTCCTCTGGGGCAGTGGCAACGACCACGTCCTCTGCTGGTGATCACAATG
GCATGCTCTCTGTCCCTGCCCCTGGGGTGCCCCACTCTGATGTGGGGGAGCCACCTGCCTCTACTGGGGCCCAGC
AGCCTTCTGCATTAGCCGCCCTGCAGCCAGCAAAGGAGCGGCGGAGTTCCTCCTCGTCGTCGTCGTCCTCTAGCT
CCTCCTCCTCTTCATCATCGTCGTCGTCGTCCTCCTCCTCCTCTGGCTCCAGTTCTAGTGACTCAGAGGGCTCTA
GCCTTCCTGTGCAACCTGAGGTGGCACTGAAGAGGGTCCCCAGCCCCACCCCAGCCCCAAAGGAGGCTGTTCGAG
AGGGACGTCCTCCGGAGCCAACCCCAGCCAAACGGAAGAGGCGCTCTAGCAGTTCCAGTTCCAGCTCCTCCTCTT
CATCTTCCTCCTCCTCCTCCTCCTCCTCTTCTTCCTCCTCCTCTTCCTCTTCTTCTTCTTCCTCCTCATCTTCCT
CCTCCTCGTCGTCTTCCTCCCCTTCCCCTGCTAAGCCTGGCCCTCAGGCCTTGCCCAAACCTGCAAGCCCCAAGA
AGCCACCCCCTGGCGAGCGGAGGTCCCGCAGCCCCCGGAAGCCAATAGACTCCCTCAGGGACTCTCGGTCCCTCA
GCTACTCGCCTGTGGAGCGTCGCCGTCCCTCGCCCCAGCCCTCACCACGGGACCAGCAGAGCAGCAGCAGTGAGC
GGGGTTCCCGGAGAGGCCAGCGTGGGGACAGCCGCTCCCCCAGCCACAAGCGCAGGAGGGAGACACCTAGCCCTC
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4782/6881
# FIGURE 4410C

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GGCCCATGAGACACCGCTGCTCCAGGTCTCCATAAATTGTCTTTGGGGGATTCCACCACACCCAATGCTCTGGAG
CCACAAGGAGTGTCCCTTCTTCCCCAGCAGAGCCGTGGGAGGGTCCTTGTCTGCTCTCCTTTGAACCTTGGCAGC
CCTTGGATGGAGGGCTCCCTTTCCCTCCCCTTTTTTTTTTTCTTTGTTCCTGTGAAATGTTAATCTCCGTGAGTTC
TTCCTGGTTCATGTGTTCTGGGGGGGTTTGGGGTGGGAGGGAATGCAGATGGGAGTTGGGGGAGGGGAGGATACAG
TTCAGGATACCCCAGCCTGGAGTCAGGGCCAGGGAGGCATGGCCCCACTTGTATCCAGAAGTTCCCAGGGGTGAT
TGTGATGGTGGTTGGGACTGGAGGTTGTATAAGGTGTTCTTGGAAGGAAGGGGCAGGAGTTGGAATTAGTTGGTC
CCTACTGTCCCCCATGAGGTTGTGAACCCCTCCCCCCAACTTTTCATGTTTCTTAAAGGCATTTTGGTTTTTTAA
AATCTGTACAGCAAGAGCAACTTTTTCTGTCAAATAAAAATGAGAAATGCAGG
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4783/6881
## FIGURE 4411

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ATGCTGCCGGCGGGCTGCTCGCGCCGGTGAGGCCTGCGCGGCAGGAGGGGGTGGGAGGATGCGGGCGGGCCGGTA
GCCAGGCGCGGGGCCCGAGGCCCGACGCTGGCCGAGGTGCTGAGCCGCCGGTGCGTCCCCCAGGCTGGTGGCCGA
GCTGCAGGGCGCCCTGGACGCCTGCGCACAGCGACAATTGCAATTGGAGCAGAGCCTGCGCGTTTGCCGTCGGCT
GCTGCATGCCTGGGAACCAACTGGGACCCGGGCTTTGAAGCCACCTCCAGGGCCAGAAACTAATGGAGAGGACCC
CCTTCCAGCATGCACACCCAGTCCACAAGACCTCAAAGAGTTGGAGTTTCTGACCCAGGCACTGGAGAAGGCTGT
ACGAGTTCGAAGAGGCATCACTAAGGCCGGAGAGAGAGACAAGGCCCCCAGCCTGAAATCTAGGTCCATTGTCAC
CTCTTCTGGCACGACAGCCTCCGCCCCACCGCATTCCCCAGGCCAAGCTGGTGGCCATGCTTCAGACACGAGACC
CACCAAGGGCCTCCGCCAGACCACGGTGCCTGCCAAGGGCCACCCTGAGCGCCGGCTGCTGTCAGTGGGGGATGG
GACCCGTGTTGGGATGGGAGCCCGAACCCCCAGGCCTGGGGCGGGCCTCAGGGACCAGCAAATGGCCCCATCCGC
TGCTCCTCAGGCCCCAGAAGCCTTCACACTCAAGGAGAAGGGGCACCTGCTGCGGCTGCCTGCGGCATTCAGGAA
AGCAGCTTCCCAGAACTCGAGCCTGTGGGCCCAGCTCAGTTCCACACAGACCAGTGATTCCACGGATGCCGCCGC
TGCCAAAACCCAGTTCCTCCAGAACATGCAGACAGCTTCAGGCGGGCCCCAGCCCAGGCTCAGTGCTGTGGAGGT
GGAGGCGGAGGCGGGGCGCCTGCGGAAGGCCTGCTCGCTGCTGAGACTGCGCATGAGGGAGGAGCTCTCAGCAGC
CCCCATGGACTGGATGCAGGAGTACCGCTGCCTGCTCACGCTGGAGGGGCTGCAGGCCATGGTGGGCCAGTGTCT
GCACAGGCTGCAGGAGCTGCGTGCAGCGGTGGCGGAACAGCCACCAAGACCATGTCCTGTGGGGAGGCCCCCCGG
AGCCTCGCCGTCCTGTGGGGGTAGAGCGGAGCCTGCATGGAGCCCCCAGCTGCTTGTCTACTCCAGCACCCAGGA
GCTGCAGACCCTGGCGGCCCTCAAGCTGCGAGTGGCTGTGCTGGACCAGCAGATCCACTTGGAAAAGGTCCTGAT
GGCTGAACTCCTCCCCCTGGTAAGCGCTGCACAGCCGCAGGGGCCGCCCTGGCTGGCCCTGTGCCGGGCTGTGCA
CAGCCTGCTCTGCGAGGGAGGAGCACGTGTCCTTACCATCCTGCGGGATGAACCTGCAGTCTGAGCCTTTCCCAT
GCTGCCCTCGGCCTGTTCAGATGGGGATTGGGGGTGTCTTCCCTGGCACTGTGCTCGGGGACCCAGAGATGCCTG
TGCTTCCCTGGGAAACCTGGTGAACTGGACCAGGTGGCCTCACTGGCTCTTCTCAGGACAACTAAGCCTGCTGGT
CAGGGCTGGCTTTCAGCCTTCCTAAGGCTCCTGGACTCCAGAGGCCAGCGGGGAGCCTTTCCTGGCTCCCTCTGT
TTTCTCACTGTAGACCAAAGAGCCGCTTGTGTGATATTAAAGCCACTTTAGAAAGC
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4784/6881
## FIGURE 4412

MGARTPRPGAGLRDQQMAPSAAPQAPEAFTLKEKGHLLRLPAAFRKAASQNSSLWAQLSSTQTSDSTDAAAAKTQ
FLQNMQTASGGPQPRLSAVEVEAEAGRLRKACSLLRLRMREELSAAPMDWMQEYRCLLTLEGLQAMVGQCLHRLQ
ELRAAVAEQPPRPCPVGRPPGASPSCGGRAEPAWSPQLLVYSSTQELQTLAALKLRVAVLDQQIHLEKVLMAELL
PLVSAAQPQGPPWLALCRAVHSLLCEGGARVLTILRDEPAV

# FIGURE 4413A

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GCAGCGCGGCCCAGGCGGGGTGCGAGTGGCGCAGTTGGAGCCCGTTGCGGCCCCTGAGGAAGCGAGGAGGCGTCG
GCGTCGGCTGAGGCGGGCGGACCGGCGAGGCGAGGCGGCGGCCCCAGGCCCGAGGGACCTCGGGAGCTCGAGCAG
CGGCGGCGGCAAGACCTCTCCCCCTCGGAGGCGGCGGGCGGAGGCGGCGGGAGCGGTGGTGCCCCCCCCGGGCAC
GGGGCCATGTACAACGGGATCGGGCTGCCGACGCCCCGGGGCAGCGGCACCAACGGCTACGTCCAGCGCAACCTG
TCCCTGGTGCGGGGCCGCCGGGGTGAGCGGCCTGACTACAAGGGAGAGGAGGAACTGCGGCGCCTGGAGGCTGCC
CTGGTGAAGCGGCCTAATCCTGACATCCTGGACCACGAGCGCAAGCGGCGCGTCGAGCTGCGATGCCTCGAGCTG
GAGGAGATGATGGAAGAGCAGGGGTACGAGGAACAGCAAATTCAGGAAAAAGTGGCGACCTTTCGACTCATGTTG
CTGGAGAAGGATGTGAACCCTGGGGGCAAGGAGGAGACCCCAGGGCAGAGGCCAGCGGTCACGGAGACTCACCAG
TTGGCAGAATTAAATGAGAAGAAGAATGAAAGACTCCGTGCTGCCTTTGGCATCAGTGATTCTTACGTAGATGGC
AGCTCTTTTGATCCTCAGCGTCGTGCCCGAGAAGCTAAACAACCAGCTCCTGAGCCTCCCAAACCTTACAGCCTT
GTTCGGGAGTCTAGCAGTTCTCGCTCACCAACCCCAAAGCAGAAGAAGAAGAAAAAGAAGAAAGATAGAGGACGC
AGGTCAGAGAGCAGCTCTCCTCGACGGGAGAGAAAGAAAAGCTCAAAGAAGAAGAAGCACAGGTCAGAATCTGAG
TCCAAGAAACGTAAGCATAGGTCTCCCACTCCAAAGAGCAAACGTAAATCTAAGGACAAAAAGCGAAAGCGGTCT
CGAAGTACAACACCAGCCCCCAAGAGCCGCCGGGCCCACCGTTCAACTTCTGCTGACTCTGCTTCCTCCTCCGAT
ACTTCCCGCAGTCGGTCTCGAAGTGCTGCAGCTAAAACTCATACAACTGCCTTGGCTGGGCGAAGTCCTTCCCCT
GCTTCAGGGCGACGCGGGGAGGGAGATGCGCCTTTCAGTGAACCAGGTACTACCAGCACACAACGGCCTAGTAGC
CCGGAGACTGCTACGAAACAGCCTAGCAGCCCTTATGAAGACAAAGATAAAGACAAGAAGGAGAAATCTGCAACT
CGACCTAGCCCCTCTCCGGAAAGGAGCAGCACAGGCCCAGAACCACCTGCTCCCACTCCGCTCCTTGCTGAGCGA
CATGGCGGCTCCCCACAACCCCTTGCAACCACCCCCTTAAGCCAGGAGCCAGTGAACCCCCCATCTGAGGCCTCT
CCAACTCGGGACCGTTCACCACCTAAGTCTCCCGAGAAACTTCCCCAGTCTTCTTCCTCAGAGAGCAGCCCACCA
TCCCCTCAACCTACCAAAGTTTCTCGGCATGCCAGCTCTTCCCCAGAAAGTCCTAAACCTGCTCCAGCTCCAGGG
TCCCACCGAGAGATTTCTTCTTCTCCCACATCTAAGAATCGCTCACATGGCCGAGCAAAACGGGATAAATCACAT
TCTCATACCCCCTCCCGTAGGATGGGGAGGTCCCGTAGCCCTGCCACCGCTAAGAGAGGGCGATCTCGGTCTCGA
ACCCCTACCAAGAGAGGTCATTCTCGATCCCGATCTCCCCAGTGGCGTAGGTCCAGGTCTGCACAGAGGTGGGGA
AGATCTAGAAGCCCCCAGCGACGTGGCCGCTCTAGGTCTCCTCAGCGACCAGGCTGGTCTAGGAGCAGAAATACC
CAGAGAAGAGGCAGGTCTAGGTCAGCAAGGCGAGGGAGGTCCCACTCTAGATCCCCAGCCACTAGGGGTAGATCT
CGTTCTAGAACACCAGCCCGCCGGGGCAGGTCCCGCTCTAGAACACCTGCCAGGCGGAGATCACGATCCAGAACT
CCCACCAGGCGTAGGTCTCGGTCTAGAACACCAGCCCGGAGGGGCAGGTCTCGGTCTAGAACACCTGCTAGGCGC
AGATCTAGGACCCGATCACCAGTACGACGCAGGTCTCGTAGTAGATCACCAGCCAGGAGAAGTGGCAGGTCACGC
TCTAGAACCCCAGCTAGACGTGGCCGCTCACGCTCCAGAACCCCAGCCAGACGTGGCCGCTCACGCTCTAGAACC
CCAGCTAGACGCAGTGGTCGCTCACGCTCCAGAACACCAGCCAGGAGAGGGAGGTCTCGGTCTAGGACACCAAGA
CGAGGAAGATCCCGCAGTAGAAGCTTAGTTAGACGTGGAAGATCTCACTCTAGAACACCTCAAAGAAGAGGCAGA
TCTGGCTCATCTTCAGAGCGGAAAAACAAATCCAGAACATCTCAAAGAAGAAGCAGGTCCAATTCAAGCCCAGAA
ATGAAGAAATCTCGCATTTCTTCAAGGCGGAGCAGGTCTCTCTCTTCACCACGGTCCAAAGCAAAATCTCGCTTG
TCTTTGAGGCGCAGCCTTTCAGGGTCTTCCCCATGCCCTAAACAAAAGTCACAGACACCACCCAGGCGCAGTCGC
TCTGGATCCTCCCAACCTAAAGCTAAATCTAGAACGCCACCCAGACGCAGTCGCTCCAGTTCTTCTCCGCCACCT
AAACAGAAATCTAAGACACCATCAAGACAAAGTCATTCCAGTTCATCTCCTCATCCTAAAGTGAAATCTGGAACA
CCACCGAGGCAAGGGTCCATAACAAGTCCCCAGGCCAATGAGCAATCTGTAACGCCACAGAGACGGAGCTGTTTT
GAATCATCACCTGACCCTGAGTTGAAATCTAGGACCCCTTCTAGACATAGCTGCTCAGGGTCCTCTCCTCCTAGA
GTGAAATCTAGCACACCTCCCAGACAGAGCCCATCTAGGTCATCATCTCCACAACCCAAAGTGAAGGCAATAATA
TCACCAAGACAAAGAAGCCATTCTGGCTCCTCTTCTCCAAGTCCTAGTAGGGTGACGTCGAGAACAACTCCACGG
CGAAGCAGATCAGTATCTCCCTGCTCCAATGTGGAATCCAGATTGTTGCCAAGATACAGTCATTCTGGGTCCTCC
TCACCAGATACCAAAGTGAAACCTGAAACACCGCCAAGACAAAGTCACTCAGGGTCTATTTCACCATACCCCAAA
GTAAAGGCCCAAACTCCACCGGGGGCCAAGTCTTTCTGGATCAAAGTCACCATGTCCCCAAGAGAAGTCTAAAGAC
TCACTAGTTCAAAGTTGCCCTGGATCCCTCTCTCTCTGTGCAGGAGTAAAATCTAGCACACCACCAGGCGAGAGC
TATTTTGGTGTCTCATCTCTGCAACTGAAAGGACAATCTCAAACTTCACCAGACCACAGATCTGATACTTCAAGT
CCAGAAGTGAGACAGAGTCATTCAGAATCACCATCTCTGCAGAGCAAATCTCAAACATCACCTAAGGGAGGTCGG
TCCAGGTCTTCATCTCCAGTCACTGAGCTGGCATCCAGATCTCCAATAAGACAAGATAGAGGTGAGTTCTCAGCG
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## FIGURE 4413B

AGTCCTATGTTGAAATCTGGAATGTCTCCTGAGCAGAGCAGGTTCCAGTCTGACTCTTCTTCATATCCTACAGTG
GACTCGAATTCTCTCTTGGGGCAGAGTAGATTGGAGACTGCTGAATCAAAAGAGAAAATGGCCTTACCCCCTCAG
GAGGATGCTACTGCATCACCTCCTAGACAGAAAGACAAATTTAGTCCCTTTCCAGTACAGGATAGGCCTGAGTCT
TCACTGGTATTCAAAGACACACTTAGAACCCCGCCAAGGGAAAGAAGTGGTGCTGGGTCATCTCCAGAAACAAAA
GAGCAAAATAGTGCATTGCCTACGTCAAGCCAAGATGAAGAGTTAATGGAGGTGGTAGAGAAGTCTGAAGAACCC
GCAGGCCAAATCCTGTCTCATTTGTCTTCAGAACTTAAAGAAATGTCCACAAGTAACTTTGAATCATCTCCTGAA
GTAGAAGAAAGGCCTGCTGTGTCTTTGACTCTTGATCAGAGCCAGTCACAGGCTTCTTTGGAAGCAGTAGAAGTC
CCTTCAATGGCCTCATCTTGGGGTGGGCCACATTTTTCTCCAGAACATAAAGAACTGTCTAACTCCCCACTCAGG
GAGAACAGCTTTGGATCACCTTTAGAATTTAGAAACTCAGGCCCACTTGGTACAGAAATGAATACTGGATTTTCT
TCTGAGGTTAAAGAAGATTTGAATGGACCGTTTCTTAATCAGCTGGAAACAGATCCATCTCTAGACATGAAAGAA
CAATCGACAAGATCCTCTGGACACAGCAGTTCTGAGTTATCCCCAGATGCAGTGGAAAAGGCAGGGATGTCTTCA
AATCAGAGCATCTCTTCACCTGTGCTTGATGCTGTACCCAGAACACCCTCGAGAGAAAGAAGTAGTTCTGCATCT
TCTCCTGAAATGAAAGATGGTTTACCCAGAACTCCATCAAGGAGAAGCAGGTCTGGGTCTTCTCCAGGACTTAGA
GATGGGTCTGGGACTCCCTCGAGGCACAGCCTGTCTGGGTCCTCTCCTGGAATGAAAGATATACCTAGAACGCCA
TCTAGAGGGAGAAGCGAATGTGATTCTTCCCCAGAACCGAAAGCTTTGCCTCAGACTCCTAGGCCGAGGAGTCGT
TCTCCATCATCCCCAGAGCTCAACAACAAGTGTCTTACCCCCCAGAGAGAAAGAAGCGGGTCAGAATCATCAGTT
GATCAGAAAACTGTGGCTCGGACTCCCCTGGGGCAGAGAAGTCGTTCGGGATCCTCTCAAGAACTTGATGTGAAA
CCCAGTGCATCCCCTCAGGAAAGAAGTGAGTCAGACTCTTCTCCAGATTCTAAAGCCAAGACAAGAACCCCACTT
CGGCAGAGGAGTCGGTCTGGATCATCTCCAGAGGTTGACAGCAAATCTCGACTATCCCCTCGGCGCAGTAGGTCT
GGTTCCTCCCCTGAAGTGAAAGATAAGCCAAGAGCAGCACCCAGGGCACAGAGTGGTTCTGATTCCTCTCCTGAA
CCTAAAGCTCCAGCCCCTCGGGCCCCTTCCCAGACGAAGCAGATCAGGTTCATCAAGCAAAGGCAGAGGCCCTTCT
CCTGAAGGAAGCAGCAGTACCGAGTCCTCTCCTGAACATCCGCCCAAATCCAGAACTGCTCGCAGAGGTTCCAGG
TCATCACCAGAGCCCAAGACCAAGTCTCGTACACCACCTCGACGTCGCAGCTCTCGATCATCTCCGGAGCTAACA
AGGAAGGCCAGACTGTCCCGTAGAAGCCGCTCTGCCTCATCCTCACCAGAAACTCGCTCTAGAACTCCCCCAAGG
CACCGGAGAAGTCCCTCAGTGTCTTCCCCGGAGCCAGCCGAAAAATCGAGGTCTTCACGCCGACGGCGCTCAGCT
TCATCTCCACGCACTAAGACAACCTCAAGGAGAGGCCGCTCTCCTTCGCCAAAGCCTCGTGGACTCCAGAGGTCC
CGTTCCCGCTCAAGGAGAGAGAAAACAAGAACAACCCGACGTCGAGATAGGTCTGGATCTTCTCAGTCAACCTCT
CGGCGAAGACAGCGGAGCCGGTCAAGGTCGCGGGTTACTCGGCGGCGGAGGGGAGGCTCTGGTTATCACTCAAGG
TCACCTGCCCGGCAGGAAAGTTCCCGGACCTCCTCTCGACGCCGAAGAGGCCGCTCTCGGACACCCCCAACCAGT
CGGAAGCGTTCTCGCTCACGCACATCACCAGCCCCGTGGAAACGCTCTAGATCTCGAGCCTCTCCAGCCACTCAC
CGGCGATCCAGGTCCAGAACCCCCCTGATAAGCCGACGTAGGTCCAGATCTCGAACTTCACCAGTCAGCCGGAGA
CGGTCAAGGTCCAGGACTTCAGTGACTCGACGAAGATCCCGGTCAAGAGCATCCCCAGTGAGCAGAAGGCGATCC
AGATCCAGAACGCCACCAGTAACCCGCCGTCGTTCAAGGTCTAGAACGCCAACAACACGCCGCCGCTCCCGTTCT
AGAACTCCACCAGTGACTCGCAGAAGGTCCAGATCCAGGACTCCACCAGTAACCAGGAGGCGATCTCGAAGCAGA
ACTTCGCCTATCACTCGCAGAAGATCAAGATCCAGAACATCTCCGGTCACCCGAAGGAGATCTCGATCTCGCACA
TCTCCAGTAACTCGAAGAAGGTCCCGCTCTCGAACCTCACCAGTGACACGCCGCCGCTCTAGGTCCCGGACACCT
CCAGCACAGGATCAGCCGAGGTCTCCTGTGCCTTCTGCTTTTTCAGACCAATCCCGTTGTTTGATTGCCCAGACC
ACCCCTGTAGCAGGGTCTCAGTCCCTTTCCTCTGGGGCAGTGGCAACGACCACGTCCTCTGCTGGTGATCACAAT
GGCATGCTCTCTGTCCCTGCCCCTGGGGTGCCCCACTCTGATGTGGGGGAGCCACCTGCCTCTACTGGGGCCCAG
CAGCCTTCTGCATTAGCCGCCCTGCAGCCAGCAAAGGAGCGGCGGAGTTCCTCCTCGTCGTCGTCGTCCTCTAGC
TCCTCCTCTTCTTCATCATCGTCGTCGTCGTCCTCCTCCTCCTCTGGCTCCAGTTCTAGTGACTCAGAGGGCTCT
AGCCTTCCTGTGCAACCTGAGGTGGCACTGAAGAGGGTCCCCAGCCCCACCCCAGCCCCAAAGGAGGCTGTTCGA
GAGGGACGTCCTCCGGAGCCAACCCCAGCCAAACGGAAGAGGCGCTCTAGCAGTTCCAGTTCCAGCTCCTCCTCT
TCATCTTCCTCCTCCTCCTCCTCCTCCTCTTCTTCCTCCTCCTCTTCCTCTTCTTCTTCCTCCTCATCTTCC
TCCTCCTCGTCGTCTTCCTCCCCTTCCCCTGCTAAGCCTGGCCCTCAGGCCTTGCCCAAACCTGCAAGCCCCAAG
AAGCCACCCCCTGGCGAGCGGAGGTCCCGCAGCCCCCGGAAGCCAATAGACTCCCTCAGGGACTCTCGGTCCCTC
AGCTACTCGCCTGTGGAGCGTCGCCGTCCCTCGCCCCAGCCCTCACCACGGGACCAGCAGAGCAGCAGCAGTGAG
CGGGGTTCCCGGAGAGGCCAGCGTGGGGACAGCCGCTCCCCCAGCCACAAGCGCAGGAGGGAGACACCTAGCCCT

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## FIGURE 4413C

CGGCCCATGAGACACCGCTCCTCCAGGTCTCCATAAATTGTCTTTGGGGGATTCCACCACACCCAATGCTCTGGA
GCCACAAGGAGTGTCCCTTCTTCCCCAGCAGAGCCGTGGGAGGGTCCTTGTCTGCTCTCCTTTGAACCTTGGCAG
CCCTTGGATGGAGGGCTCCCTTTCCCTCCCCTTTTTTTTTTTCTTTGTTCCTGTGAAATGTTAATCTCCGTGAGTT
CTTCCTGGTTCATGTGTTCTGGGGGGGTTTGGGGTGGGAGGGAATGCAGATGGGAGTTGGGGGAGGGGAGGATACA
GTTCAGGATACCCCAGCCTGGAGTCAGGGCCAGGGAGGCATGGCCCCACTTGTATCCAGAAGTTCCCAGGGGTGA
TTGTGATGGTGGTTGGGACTGGAGGTTGTATAAGGTGTTCTTGGAAGGAAGGGGCAGGAGTTGGAATTAGTTGGT
CCCTACTGTCCCCCATGAGGTTGTGAACCCCTCCCCCCAACTTTTCATGTTTCTTAAAGGCATTTTGGTTTTTTA
AAATCTGTACAGCAAGAGCAACTTTTTCTGTCAAATAAAAATGAGAAATGCAGG

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# FIGURE 4414

CGAC<u>ATG</u>GCGCGCGAGCTGCGGGCGCTGCTGCTGTGGGGCCGCCGCCTGCGGCCTTTGCTGCGGGCGCCGGCGCT
GGCGGCCGTGCCGGGAGGAAAACCAATTCTGTGTCCTCGGAGGACCACAGCCCAGTTGGGCCCCAGGCGAAACCC
AGCCTGGAGCTTGCAGGCAGGACGACTGTTCAGCACGCAGACCGCCGAGGACAAGGAGGAACCCCTGCACTCGAT
TATCAGCAGCACAGAGAGCGTGCAGGGTTCCACTTCCAAACATGAGTTCCAGGCCGAGACAAAGAAGCTTTTGGA
CATTGTTGCCCGGTCCCTGTACTCAGAAAAAGAGGTGTTTATACGGGAGCTGATCTCCAATGCCAGCGATGCCTT
GGAAAAACTGCGTCACAAACTGGTGTCTGACGGCCAAGCACTGCCAGAAATGGAGATTCACTTGCAGACCAATGC
CGAGAAAGGCACCATCACCATCCAGGATACTGGTATCGGGATGACACAGGAAGAGCTGGTGTCCAACCTGGGGAC
GATTGCCAGATCGGGGTCAAAGGCCTTCCTGGATGCTCTGCAGAACCAGGCTGAGGCCAGCAGCAAGATCATCGG
CCAGTTTGGAGTGGGTTTCTACTCAGCTTTCATGGTGGCTGACAGAGTGGAGGTCTATTCCCGCTCGGCAGCCCC
GGGGAGCCTGGGTTACCAGTGGCTTTCAGATGGTTCTGGAGTGTTTGAAATCGCCGAAGCTTCGGGAGTTAGAAC
CGGGACAAAAATCATCATCCACCTGAAATCCGACTGCAAGGAGTTTTCCAGCGAGGCCCGGGTGCGAGATGTGGT
AACGAAGTACAGCAACTTCGTCAGCTTCCCCTTGTACTTGAATGGAAGGCGGATGAACACCTTGCAGGCCATCTG
GATGATGGACCCCAAGGATGTCGGTGAGTGGCAACATGAGGAGTTCTACCGCTACGTCGCGCAGGCTCACGACAA
GCCCCGCTACACCCTGCACTATAAGACGGACGCACCGCTCAACATCCGCAGCATCTTCTACGTGCCCGACATGAA
ACCGTCCATGTTTGATGTGAGCCGGGAGCTGGGCTCCAGCGTTGCACTGTACAGCCGCAAAGTCCTCATCCAGAC
CAAGGCCACGGACATCCTGCCCAAGTGGCTGCGCTTCATCCGAGGTGTGGTGGACAGTGAGGACATTCCCCTGAA
CCTCAGCCGGGAGCTGCTGCAGGAGAGCGCACTCATCAGGAAACTCCGGGACGTTTTACAGCAGAGGCTGATCAA
ATTCTTCATTGACCAGAGTAAAAAAGATGCTGAGAAGTATGCAAAGTTTTTTGAAGATTACGGCCTGTTCATGCG
GGAGGGCATTGTGACCGCCACCGAGCAGGAGGTCAAGGAGGACATAGCAAAGCTGCTGCGCTACGAGTCCTCGGC
GCTGCCCTCCGGGCAGCTAACCAGCCTCTCAGAATACGCCAGCCGCATGCGGGCCGGCACCCGCAACATCTACTA
CCTGTGCGCCCCCAACCGTCACCTGGCAGAGCACTCACCCTACTATGAGGCCATGAAGAAGAAAGACACAGAGGT
TCTCTTCTGCTTTGAGCAGTTTGATGAGCTCACCCTGCTGCACCTTCGTGAGTTTGACAAGAAGAAGCTGATCTC
TGTGGAGACGGACATAGTCGTGGATCACTACAAGGAGGAGAAGTTTGAGGACAGGTCCCCAGCCGCCGAGTGCCT
ATCAGAGAAGGAGACGGAGGAGCTCATGGCCTGGATGAGAAATGTGCTGGGGTCGCGTGTCACCAACGTGAAGGT
GACCCTCCGACTGGACACCCACCCTGCCATGGTCACCGTGCTGGAGATGGGGGCTGCCCGCCACTTCCTGCGCAT
GCAGCAGCTGGCCAAGACCCAGGAGGAGCGCGCACAGCTCCTGCAGCCCACGCTGGAGATCAACCCCAGGCACGC
GCTCATCAAGAAGCTGAATCAGCTGCGCGCAAGCGAGCCTGGCCTGGCTCAGCTGCTGGTGGATCAGATATACGA
GAACGCCATGATTGCTGCTGGACTTGTTGACGACCCTAGGGCCATGGTGGGCCGCTTGAATGAGCTGCTTGTCAA
GGCCCTGGAGCGACAC<u>TGA</u>CAGCCAGGGGGCCAGAAGGACTGACACCACAGATGACAGCCCCACCTCCTTGAGCT
TTATTTACCTAAATTTAAAGGTATTTCTTAACCCGAAAAAAAAAAAAAAAA

## FIGURE 4415

MARELRALLLWGRRLRPLLRAPALAAVPGGKPILCPRRTTAQLGPRRNPAWSLQAGRLFSTQTAEDKEEPLHSII
SSTESVQGSTSKHEFQAETKKLLDIVARSLYSEKEVFIRELISNASDALEKLRHKLVSDGQALPEMEIHLQTNAE
KGTITIQDTGIGMTQEELVSNLGTIARSGSKAFLDALQNQAEASSKIIGQFGVGFYSAFMVADRVEVYSRSAAPG
SLGYQWLSDGSGVFEIAEASGVRTGTKIIIHLKSDCKEFSSEARVRDVVTKYSNFVSFPLYLNGRRMNTLQAIWM
MDPKDVGEWQHEEFYRYVAQAHDKPRYTLHYKTDAPLNIRSIFYVPDMKPSMFDVSRELGSSVALYSRKVLIQTK
ATDILPKWLRFIRGVVDSEDIPLNLSRELLQESALIRKLRDVLQQRLIKFFIDQSKKDAEKYAKFFEDYGLFMRE
GIVTATEQEVKEDIAKLLRYESSALPSGQLTSLSEYASRMRAGTRNIYYLCAPNRHLAEHSPYYEAMKKKDTEVL
FCFEQFDELTLLHLREFDKKKLISVETDIVVDHYKEEKFEDRSPAAECLSEKETEELMAWMRNVLGSRVTNVKVT
LRLDTHPAMVTVLEMGAARHFLRMQQLAKTQEERAQLLQPTLEINPRHALIKKLNQLRASEPGLAQLLVDQIYEN
AMIAAGLVDDPRAMVGRLNELLVKALERH

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# FIGURE 4416

CGGA**ATG**GAGGAGGTGCCTCACGACTGTCCAGGGGCCGACAGCGCCCAGGCGGGCAGAGGGGCTTCATGTCAGGG
ATGCCCCAACCAGCGGCTGTGCGCTTCTGGAGCGGGGGCCACTCCGGACACGGCTATAGAGGAAATCAAAGAGAA
AATGAAGACTGTAAAACACAAAATCTTGGTATTGTCTGGGAAAGGCGGTGTTGGGAAAAGCACATTCAGCGCCCA
CCTTGCCCATGGCCTAGCAGAGGATGAAAACACACAGATTGCTCTTCTAGACATCGATATATGTGGGCCATCGAT
TCCCAAGATAATGGGATTGGAAGGAGAGCAGGTTCACCAGAGTGGCTCAGGCTGGTCTCCAGTGTACGTGGAAGA
CAACCTGGGGGTGATGTCAGTGGGCTTCCTGCTCAGCAGTCCTGATGATGCTGTTATCTGGAGGGGACCCAAGAA
AAACGGCATGATCAAGCAGTTCCTCCGAGATGTGGACTGGGGAGAGGTCGACTACCTCATTGTGGACACCCCACC
TGGGACGTCGGATGAACACCTCTCGGTCGTCCGGTACCTGGCCACAGCACACATCGATGGAGCAGTGATCATCAC
CACTCCCCAGGAGCTGTCACTCCAGGATGTCCGGAAAGAAATCAACTTCTGCCGCAAGGTGAAGCTGCCCATCAT
CGGGGTGGTGGAGAACATGAGTCCGTTCATCTGTCCTAAGTGCAAGAAAGAATCTCAGATATTCCCTCCCACAAC
CGGGGGCGCGGAGCTCATGTGCCAGGACTTGGAGGTCCCTCTCCTCGGCAGAGTGCCCCTGGATCCGCTCATAGG
TAAGAATTGTGACAAAGGCCAGTCTTTTTTCATTGACGCCCCAGATTCCCCAGCCACGTTAGCCTACAGAAGTAT
AATTCAGAGAATCCAAGAGTTTTGTAATCTCCATCAGTCAAAAGAAGAGAACCTCATCAGTTCC**TGA**ACGAGAG
AATGTTCAGGACCAAGCAGTTACCGAGCGAGGCACTCACTGGGCAGCACATCCAGCCAGACCCGACCAGCTCCGG
GATGGGGTGGGTCACAGCAAAAGGACCAGATGCTGGTGTGGTCCGAAGCCACTTTCTCAGAGACACTTTAATCAT
TGAGTATTTGTACACTTTTCTTTAGAACATATATAAAGGGCATTCTCTACAAATGTGCCGTTTTAAGAATAAAAC
CCCCTCAAATCTC

4791/6881
# FIGURE 4417

MEEVPHDCPGADSAQAGRGASCQGCPNQRLCASGAGATPDTAIEEIKEKMKTVKHKILVLSGKGGVGKSTFSAHL
AHGLAEDENTQIALLDIDICGPSIPKIMGLEGEQVHQSGSGWSPVYVEDNLGVMSVGFLLSSPDDAVIWRGPKKN
GMIKQFLRDVDWGEVDYLIVDTPPGTSDEHLSVVRYLATAHIDGAVIITTPQELSLQDVRKEINFCRKVKLPIIG
VVENMSPFICPKCKKESQIFPPTTGGAELMCQDLEVPLLGRVPLDPLIGKNCDKGQSFFIDAPDSPATLAYRSII
QRIQEFCNLHQSKEENLISS

4792/6881
# FIGURE 4418

CGGTCCTTCTCAACAGGCCTGTGCCCCGCGGGGTCCGCCTCCTCTGGGACGCCTTCCTCCCGGCACAGAAGGCCT
CCCCCTCTCACCAGGGCCCTCGCCCGCTGGTCCGCCAGGCCCCGCCTTTTTTGCGGCCCCCATTGTGCTGCTGGA
CCCGACGAGCAGTGTTGACAGTGAACCCCACGTAGACGCGGCCCCGGTACCGGGGGTTCAGGCAGTAGAGCAGGT
AGACGCCGAAAAAGCGCCCTGGCCTCGCCGCGACCCCCGCGGGACCCATCGGGCCTTGGGGTTCGGGAACCACAG
CAGGGGGTTGATTGCCGTGACCTAGGGTCCAGGGGAGGGCTGGATCGCTAGGGCTGCAGGGTGCTTGCTTCGGAA
CAAGCTCTCGGGGACTATCCGGAGGCAGCCTGCAGGAAGCCGTAGCGCCGGTACGTGCCCCTCTCCTGTCTGGAG
GCGGGTGTAGAAGTCCGACCGCGGAAGCCAGACTGCTGTCCAGTCGGCGAGCGCGTACCATTCAGCATCGGCTCC
GCCCGAGTCCCACCTTCCTCAGGCTCTGATTGGCTGACACATGGCAAGCGCGAAAAGCCTGGACCGCTGGAAAGC
CCGGCTGCTTGAGGGCGGAAGTACTGCGTTGACGTACGCCTTAGTAAGGGCGGAAGTGAGTTTTCCAGCGGAAGT
GGCTCCTGTAAGGCAGCAAGGTAGCGTGGCCGGCGCCCGAGCTGGGGTTGTGTCCCTGCTGGGCTGCCGTTCCAG
CTGGACTGCCGCC**ATG**GAACTCAGCGCCGAATACCTCCGCGAGAAGCTGCAGCGGGACCTGGAGGCGGAGCATGT
GGAGGTGGAGGACACGACCCTCAACCGTTGCTCCTGTAGCTTCCGAGTCCTGGTGGTGTCGGCCAAGTTCGAGGG
GAAACCGCTGCTTCAGAGACACAGGCTGGTGAACGCGTGCCTAGCAGAAGAGCTCCCGCACATCCATGCCTTTGA
ACAGAAAACCCTGACCCCAGACCAGTGGGCACGTGAGCGACAGAAA**TGA**GGGACTGGGATCTGCACAGCCATTAA
ATTATAAATCTGGACCAGCTTCTGTGTCGATGTGTGTGTGGGAGGGGTGCTGAGGCCGAGTCTAGGACCTGGCCT
CTCCCTGCCCTGCCTCCGTCCATTGTTTTA

4793/6881
## FIGURE 4419

MELSAEYLREKLQRDLEAEHVEVEDTTLNRCSCSFRVLVVSAKFEGKPLLQRHRLVNACLAEELPHIHAFEQKTL
TPDQWARERQK

4794/6881
## FIGURE 4420

GGTAACTTCTTGATGTTGCCGTGGCATTTGTAAACTGTCATGGTGCTGGTAGGAGTGTAGCAGGGAGGATGATGG
GAGGTCAGTCTTGTCTCTATTTTGGTTTTGGTGGGTTTTGGCCAGCTCCTTCACTGCAACCTGTTTTATCAGCAA
GGTCTTTATGACTGGTATTTTGTGCTGACCTTCTATGTCATCCTGTGACTTAGAATGCCTTAACCATCAGGGAAT
GCAGCCCAGTAGTTTCAGCCTCATTTTTCCTGGCTCCTATTTAAGATGGAGTTGCTCTGGTTCACACACCTCTGA
CATGATCATTGCCCACTGCGGCTTCCACCTCCCGGGTTCAAGAGATCCTCCTGCCTCACCCTCCCAAGGTGCTGG
GACTACAGGTGTGTGCCACCACGCTCAGCTAATTTTTGTATTTTTTGTAGAGATGGTGTTTTTCCATGTTGCCCA
GGCTGGTCTCAAACTCCTGGGCTCAAGCAATCCTTCTGTCTCAGCCTCCCAAAGTACTGGGATTACAGGCATGTC
CCACCATGCCCAGACTAATATTTACTTTTAATCAGACTAAGATAGGGTTACTACTTGAGTTGCTATGGCTCCAGC
TGAAAGAAAGCCCGTGCAGTCATATCACGCGTAAACATTTGCTTTATGCTAAAAATATGGTGGACCTGGCATTAC
AGCTATTACAAATCTCCTAAGATGTCTCGGGTAGTGTATTAGTTACTTTTCATACTGCTATGAAGAAATACTGGA
AACTGGGTAATTTATAAAGAAAAAGAGGTTTAATGTACTCACAGTTCCACAAGGCTGGAGAGGCCTCAGAATCAT
GGTGGAAGGCAAGGAGCAAAAAGGTATGTCTTCCATGGCAGCAGGCAAGAGAGCACGTGCAGGGAAACTGCCCTT
TATAAAACCATCAGATTTAGTGAGATGTATTCACTATCACGAGAACAGTATGGGAAAAACCTGCCCCCATGATTC
GATTACCTCCTACCGGGTCCCTCCCACGACACATGGGGATTATGGGAACTACAATTCAAGATGAAATTTGGGTGG
GGACGCAGCCAAACCATATCGGGTAGCAACAACCTAGGGTCAGTTTTGCAGGTGGTAAAGCCATTTACCAAGATA
GTTGTAGGTAAAGAAGGGCAGATTTATTAGAGAAATTGTGAAAATATGTTGCAGTGGGCAGCTCAGCAGAGAAGG
GGCTACCTGCAAAGAGGCAAGGGCTGGAGGAAAGTTTTATAGGGTCCTGCTGAAGGGTGCTACGTGTGGAATGAG
GTCATTGTGCCCGCAGGTTGTTTGTGATTAGCTGTTTCTAACAATTGTTCATACAATAATTGTTCATTATTGTTC
TCAACTTGGGGCTCTCCCCAACCTGGGGACCCTTCCTTATTGTTGCTTACTTATCAGGTCTCCACATAAAGGTGT
GGAAACTTCATTCATTCATATCTTCAACACAAATTGTAGGTAGCCTGTTTTTTAAAACATTTATTCAACAAATAT
TTAGTCCAAGCCACTATTACTTATTACCTTCTCTACTATTGTATGGACTTTTAACTATCTCTGACACTATTCACT
ATTCTTCCACATTCTCTATTATTTATACCTATGGTAAAATTTGCCAGTTTGACCATACAACTAATACTCACAGGG
AATATATAGAGTCTAGAAGAAAATATACAGGTCCTTAAAGGCTGCCCTGCCAACAAAACCATAACGCAGGAACAA
ACATCACAACTATGCCAAATAATCAATCCTACAATGTCCAAAATTTTACTTTAAAACTGGAATTTCCAGACTTCC
TTTCTGCATTAACCAGTTAACTAGACAGTAACGAAATATTCCTACTTTATGCTGTGATAGTTTGTTTATTTATT
TATTTATTTATTTATTTATTTGAGACAGAGTTTCGCTCTTGTTGCAGTGAGCCAGGATCATGCCATTGCACTCCA
GCCTGGTCAACGGAGCGAGACTCCGCCTCATTAAAAAAAAAAAAAAAAA

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# FIGURE 4421

ATCTTGCTTTCCTTTAATCCGGCAGTGACCGTGTGTCAGAACAATCTTGAATC**ATG**AAGCTACTAACCAGAGCCG
GCTCTTTCTCGAGATTTTATTCCCTCAAAGTTGCCCCCAAAGTTAAAGCCACAGCTGCGCCTGCAGGAGCACCGC
CACAACCTCAGGACCTTGAGTTTACCAAGTTACCAAATGGCTTGGTGATTGCTTCTTTGGAAAACTATTCTCCTG
TATCAAGAATTGGTTTGTTCATTAAAGCAGGCAGTAGATATGAGGACTTCAGCAATTTAGGAACCACCCATTTGC
TGCGTCTTACATCCAGTCTGACGACAAAAGGAGCTTCATCTTTCAAGATAACCCGTGGAATTGAAGCAGTTGGTG
GCAAATTAAGTGTGACCGCAACAAGGGAAAACATGGCTTATACTGTGGAATGCCTGCGGGGTGATGTTGATATTC
TAATGGAGTTCCTGCTCAATGTCACCACAGCACCAGAATTTCGTCGTTGGGAAGTAGCTGACCTTCAGCCTCAGC
TAAAGATTGACAAAGCTGTGGCCTTTCAGAATCCGCAGACTCATGTCATTGAAAATTTGCATGCAGCAGCTTACC
AGAATGCCTTGGCTAATCCCTTGTATTGTCCTGACTATAGGATTGGAAAAGTGACATCAGAGGAGTTACATTACT
TCGTTCAGAACCATTTCACAAGTGCAAGAATGGCTTTGATTGGACTTGGTGTGAGTCATCCTGTTCTAAAGCAAG
TTGCTGAACAGTTTCTCAACATGAGGGGTGGGCTTGGTTTATCTGGTGCAAAGGCCAACTACCGTGGAGGTGAAA
TCCGAGAACAGAATGGAGACAGTCTTGTCCATGCTGCTTTTGTAGCAGAAAGTGCTGTCGCGGGAAGTGCAGAGG
CAAATGCATTTAGTGTTCTTCAGCATGTCCTCGGTGCTGGGCCACATGTCAAGAGGGGCAGCAACACCACCAGCC
ATCTGCACCAGGCTGTTGCCAAGGCAACTCAGCAGCCATTTGATGTTTCTGCATTTAATGCCAGTTACTCAGATT
CTGGACTCTTTGGGATTTATACTATCTCCCAGGCCACAGCTGCTGGAGATGTTATCAAGGCTGCCTATAATCAAG
TAAAAAGAATAGCTCAAGGAAACCTTTCCAACACAGATGTCCAAGCTGCCAAGAACAAGCTGAAAGCTGGATACC
TAATGTCAGTGGAGTCTTCTGAGTGTTTCCTGGAAGAAGTCGGGTCCCAGGCTCTAGTTGCTGGTTCTTACATGC
CACCATCCACAGTCCTTCAGCAGATTGATTCAGTGGCTAATGCTGATATCATAAATGCGGCAAAGAAGTTTGTTT
CTGGCCAGAAGTCAATGGCAGCAAGTGGAAATTTGGGACATACACCTTTTGTTGATGAGTTG**TAA**TACTGATGCA
CACATTACAGGAGAGAGCTGAACGTTCTCTCACCCAGAGCAGCAAACACATGAAAGTCAGAAGTCTCTAATATAT
CATTTGTCTTTTTTCCAGTGAGGTAAAATAAGGCATAAATGCAGGTAATTATTCCCAGCTGACCTAAAGTCAATA
AAACATTCTGTTT

# FIGURE 4422

MKLLTRAGSFSRFYSLKVAPKVKATAAPAGAPPQPQDLEFTKLPNGLVIASLENYSPVSRIGLFIKAGSRYEDFS
NLGTTHLLRLTSSLTTKGASSFKITRGIEAVGGKLSVTATRENMAYTVECLRGDVDILMEFLLNVTTAPEFRRWE
VADLQPQLKIDKAVAFQNPQTHVIENLHAAAYQNALANPLYCPDYRIGKVTSEELHYFVQNHFTSARMALIGLGV
SHPVLKQVAEQFLNMRGGLGLSGAKANYRGGEIREQNGDSLVHAAFVAESAVAGSAEANAFSVLQHVLGAGPHVK
RGSNTTSHLHQAVAKATQQPFDVSAFNASYSDSGLFGIYTISQATAAGDVIKAAYNQVKRIAQGNLSNTDVQAAK
NKLKAGYLMSVESSECFLEEVGSQALVAGSYMPPSTVLQQIDSVANADIINAAKKFVSGQKSMAASGNLGHTPFV
DEL

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# FIGURE 4423

AGTCCTCTTCCGGGTGATGGCGGCGGGTGCCCCGGATGTAGCCCTGGCGCAAGCATCTCTTCTTTTTTCCACCTC
GCCTTCCGCGGATTCCCAGCTTGAGAAACACCTCTTTGCCCCGTC**ATG**CCAAAGAGGAAAGTGACCTTCCAAGGC
GTGGGAGATGAGGAGGATGAGGATGAAATCATTGTCCCCAAGAAGAAGCTGGTGGACCCTGTGGCTGGGTCAGGG
GGTCCTGGGAGCCGCTTTAAAGGCAAACACTCTTTGGATAGCGATGAGGAGGAGGATGATGATGATGGGGGGGTCC
AGCAAATATGACATCTTGGCCTCAGAGGATGTAGAAGGTCAGGAGGCAGCCACACTCCCCAGCGAGGGGGGTGTT
CGGATCACACCCTTTAACCTGCAGGAGGAGATGGAGGAAGGCCACTTTGATGCCGATGGCAACTACTTCCTGAAC
CGGGATGCTCAGATCCGAGACAGCTGGCTGGACAACATTGACTGGGTGAAGATCCGGGAGCGGCCACCTGGCCAG
CGCCAGGCCTCAGACTCGGAGGAGGAGGACAGCTTGGGCCAGACCTCAATGAGTGCCCAAGCCCTCTTGGAGGGA
CTTTTGGAGCTCCTATTGCCTAGAGAGACAGTGGCTGGGGCACTGAGGCGTCTGGGGGCCCGAGGAGGAGGCAAA
GGGAGAAAGGGGCCTGGGCAACCCAGTTCCCCTCAGCGCCTGGACCGGCTCTCCGGGTTGGCCGACCAGATGGTG
GCCCGGGGGCAACCTTGGTGTGTACCAGGAAACAAGGGAACGGTTGGCTATGCGTCTGAAGGGTTTGGGGTGTCAG
ACCCTAGGACCCCACAATCCCACACCCCCACCCTCCCTGGACATGTTCGCTGAGGAGTTGGCGGAGGAGGAACTG
GAGACCCCAACCCCTACCCAGAGAGGAGAAGCAGAGTCGCGGGGAGATGGTCTGGTGGATGTGATGTGGGAATAT
AAGTGGGAGAACACGGGGGATGCCGAGCTGTATGGGCCCTTCACCAGCGCCCAGATGCAGACCTGGGTGAGTGAA
GGCTACTTCCCGGACGGTGTTTATTGCCGGAAGCTGGACCCCCCTGGTGGTCAGTTCTACAACTCCAAACGCATT
GACTTTGACCTCTACACC**TGA**GCCTGCTGGGGGCCCAGTTTGGTGGGCCCTTCTTTCCTGGACTTTGTGGAGGAG
GCACCAAGTGTCTCAGGCAGCGAGGAAATTGGAGGCCATTTTTCAGTCAATTTCCCTTTCCCAATAAAAGCCTTT
AGTTGTGTAAAAAAAAAAAAAAAAAA

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# FIGURE 4424

MPKRKVTFQGVGDEEDEDEIIVPKKKLVDPVAGSGGPGSRFKGKHSLDSDEEEDDDDGGSSKYDILASEDVEGQE
AATLPSEGGVRITPFNLQEEMEEGHFDADGNYFLNRDAQIRDSWLDNIDWVKIRERPPGQRQASDSEEEDSLGQT
.SMSAQALLEGLLELLLPRETVAGALRRLGARGGGKGRKGPGQPSSPQRLDRLSGLADQMVARGNLGVYQETRERL
AMRLKGLGCQTLGPHNPTPPPSLDMFAEELAEEELETPTPTQRGEAESRGDGLVDVMWEYKWENTGDAELYGPFT
SAQMQTWVSEGYFPDGVYCRKLDPPGGQFYNSKRIDFDLYT

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# FIGURE 4425

AAACAGGCCATTGTTGCTGAGCGAGGATGAAGAAGATACCAAGAGAGTTGTCCGCAGTGCCAAGGACAAGAGGTT
TGAGGAGCTGACCAACCTTATCCGGACCATCCGTAATGCCATGAAGATTCGTGATGTCACCAAGTGCCTGGAAGA
GTTTGAGCTCCTGGGAAAAGCATATGGGAAGGCCAAAAGCATTGTGGACAAAGAAGGTGTCCCCCGGTTCTATAT
CCGCATCCTGGCTGACCTAGAGGACTATCTTAATGAGCTTTGGGAAGATAAGGAAGGGAAGAAGAAGATGAACAA
GAACAATGCCAAGGCTCTGAGCACCTTGCGTCAGAAGATCCGAAAATACAACCGTGATTTCGAGTCCCATATCAC
AAGCTACAAGCAGAACCCCGAGCAGTCTGCGGATGAAGATGCTGAGAAAAATGAGGAGGATTCAGAAGGCTCTTC
AGATGAGGATGAGGATGAGGACGGAGTCAGTGCTGCAACTTTCTTGAAGAAGAAATCAGAAGCTCCTTCTGGGGA
GAGTCGCAAGTTCCTCAAAAAGATGGATGATGAAGATGAGGACTCAGAAGATTCCGAAGATGATGAAGACTGGGA
CACAGGTTCCACATCTTCCGATTCCGACTCAGAGGAGGAAGAAGGGAAACAAACCGCGCTGGCCTCAAGATTTCT
TAAAAAGGCACCCACCACAGATGAGGACAAGAAGGCAGCCGAGAAGAAACGGGAGGACAAAGCTAAGAAGAAGCA
CGACAGGAAATCCAAGCGCCTGGATGAGGAGGAGGAGGACAATGAAGGCGGGGAGTGGGAAAGGGTCCGGGGCGG
AGTGCCGTTGGTTAAGGAGAAGCCAAAAATGTTTGCCAAGGGAACTGAGATCACCCATGCTGTTGTTATCAAGAA
ACTGAATGAGATCCTACAGGCACGAGGCAAGAAGGGAACTGATCGTGCTGCCCAGATTGAGCTGCTGCAACTGCT
GGTTCAGATTGCAGCGGAAAACAACCTGGGAGAGGGCGTCATTGTCAAGATCAAGTTCAATATCATCGCCTCTCT
CTATGACTACAACCCCAACCTGGCAACCTACATGAAGCCAGAGATGTGGGGGAAGTGCCTGGACTGCATCAATGA
GCTGATGGATATCCTGTTTGCAAATCCCAACATTTTTGTTGGAGAGAATATTCTGGAAGAGAGTGAGAACCTGCA
CAACGCTGACCAGCCACTGCGTGTCCGTGGCTGCATCCTAACTCTGGTGGAACGAATGGATGAAGAATTTACCAA
AATAATGCAAAATACTGACCCTCACTCCCAAGAGTACGTGGAGCACTTGAAGGATGAGGCCCAGGTGTGTGCCAT
CATCGAGCGTGTGCAGCGCTACCTGGAGGAGAAGGGCACTACCGAGGAGGTCTGCCGCATCTACCTGCTGCGCAT
CCTGCACACCTACTACAAGTTTGATTACAAGGCCCATCAGCGACAGCTGACCCCGCCTGAGGGCTCCTCAAAGGT
GAGCAAGACCAGGCAGAAAATGAGGGCGAGGACTCGGCTGTGTTGATGGAGAGACTGTGCAAGTACATCTACGCC
AAGGACCGCACAGACCGGATCCGCACATGTGCCATCCTCTGCCACATCTACCACCATGC

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# FIGURE 4426

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GGCCCTGCGGTGTGACTCGCGGGCTCAGCTGGTTGGTATTTTTTGGGCCTCGTGCTTCGTGGTGGGAGACCCAGG
TCGAGGTCCGGCCGTAGCACCTCCGCGCCGTCGCCATGTCGCGGTTTTTCACCACCGGTTCGGACAGCGAGTCCG
AGTCGTCCTTGTCCGGGGAGGAGCTCGTCACCAAACCTGTCGGAGGCAACTATGGCAAACAGCCATTGTTGCTGA
GCGAGGATGAAGAAGATACCAAGAGAGTTGTCCGCAGTGCCAAGGACAAGAGGTTTGAGGAGCTGACCAACCTTA
TCCGGACCATCCGTAATGCCATGAAGATTCGTGATGTCACCAAGTGCCTGGAAGAGTTTGAGCTCCTGGGAAAAG
CATATGGGAAGGCCAAAAGCATTGTGGACAAAGAAGGTGTCCCCCGGTTCTATATCCGCATCCTGGCTGACCTAG
AGGACTATCTTAATGAGCTTTGGGAAGATAAGGAAGGGAAGAAGAAGATGAACAAGAACAATGCCAAGGCTCTGA ·
GCACCTTGCGTCAGAAGATCCGAAAATACAACCGTGATTTCGAGTCCCATATCACAAGCTACAAGCAGAACCCCG
AGCAGTCTGCGGATGAAGATGCTGAGAAAAATGAGGAGGATTCAGAAGGCTCTTCAGATGAGGATGAGGATGAGG
ACGGAGTCAGTGCTGCAACTTTCTTGAAGAAGAAATCAGAAGCTCCTTCTGGGGAGAGTCGCAAGTTCCTCAAAA
AGATGGATGATGAAGATGAGGACTCAGAAGATTCCGAAGATGATGAAGACTGGGACACAGGTTCCACATCTTCCG
ATTCCGACTCAGAGGAGGAAGAAGGGAAACAAACCGCGCTGGCCTCAAGATTTCTTAAAAAGGCACCCACCACAG
ATGAGGACAAGAAGGCAGCCGAGAAGAAACGGGAGGACAAAGCTAAGAAGAAGCACGACAGGAAATCCAAGCGCC
TGGATGAGGAGGAGGAGGACAATGAAGGCGGGGAGTGGGAAAGGGTCĊGGGGCGGAGTGCCGTTGGTTAAGGAGA
AGCCAAAAATGTTTGCCAAGGGAACTGAGATCACCCATGCTGTTGTTATCAAGAAACTGAATGAGATCCTACAGG
CACGAGGCAAGAAGGGAACTGATCGTGCTGCCCAGATTGAGCTGCTGCAACTGCTGGTTCAGATTGCAGCGGAAA
ACAACCTGGGAGAGGGCGTCATTGTCAAGATCAAGTTCAATATCATCGCCTCTCTCTATGACTACAACCCCAACC
TGGCAACCTACATGAAGCCAGAGATGTGGGGGAAGTGCCTGGACTGCATCAATGAGCTGATGGATATCCTGTTTG
CAAATCCCAACATTTTTGTTGGAGAGAATATTCTGGAAGAGAGTGAGAACCTGCACAACGCTGACCAGCCACTGC
GTGTCCGTGGCTGCATCCTAACTCTGGTGGAACGAATGGATGAAGAATTTACCAAAATAATGCAAAATACTGACC
CTCACTCCCAAGAGTACGTGGAGCACTTGAAGGATGAGGCCCAGGTGTGTGCCATCATCGAGCGTGTGCAGCGCT
ACCTGGAGGAGAAGGGCACTACCGAGGAGGTCTGCCGCATCTACCTGCTGCGCATCCTGCACACCTACTACAAGT
TTGATTACAAGGCCCATCAGCGACAGCTGACCCCGCCTGAGGGCTCCTCAAAGTCTGAGCAAGACCAGGCAGAAA
ATGAGGGCGAGGACTCGGCTGTGTTGATGGAGAGACTGTGCAAGTACATCTACGCCAAGGACCGCACAGACCGGA
TCCGCACATGTGCCATCCTCTGCCACATCTACCACCATGCTCTGCACTCGCGCTGGTACCAGGCCCGCGACCTCA
TGCTCATGAGCCACTTGCAGGACAACATTCAGCATGCAGACCCGCCAGTGCAGATCCTTTACAACCGCACCATGG
TGCAGCTGGGCATCTGTGCCTTCCGCCAAGGCCTGACCAAGGACGCACACAACGCCCTGCTGGACATCCAGTCGA
GTGGCCGAGCCAAGGAGCTTCTGGGCCAGGGCCTGCTGCTGCGCAGCCTGCAGGAGCGCAACCAGGAGCAGGAGA
AGGTGGAGCGGCGCCGTCAGGTCCCCTTCCACCTGCACATCAACCTGGAGCTGCTGGAGTGTGTCTACCTGGTGT
CTGCCATGCTCCTGGAGATCCCCTACATGGCCGCCCATGAGAGCGATGCCCGCCGACGCATGATCAGCAAGCAGT
TCCACCACCAGCTGCGCGTGGGCGAGCGACAGCCCCTGCTGGGTCCCCCTGAGTCCATGCGGGAACATGTGGTCG
CTGCCTCCAAGGCCATGAAGATGGGTGACTGGAAGACCTGTCACAGTTTTATCATCAATGAGAAGATGAATGGGA
AAGTGTGGGACCTTTTCCCCGAGGCTGACAAAGTCCGCACCATGCTGGTTAGGAAGATCCAGGAAGAGTCACTGA
GGACCTACCTCTTCACCTACAGCAGTGTCTATGACTCCATCAGCATGGAGACGCTGTCAGACATGTTTGAGCTGG
ATCTGCCCACTGTGCACTCCATCATCAGCAAAATGATCATTAATGAGGAGCTGATGGCCTCCCTGGACCAGCCAA
CACAGACAGTGGTGATGCACCGCACTGAGCCCACTGCCCAGCAGAACCTGGCTCTGCAGCTGGCCGAGAAGCTGG
GCAGCCTGGTGGAGAACAACGAACGGGTGTTTGACCACAAGCAGGGCACCTACGGGGGCTACTTCCGAGACCAGA
AGGACGGCTACCGCAAAAACGAGGGCTACATGCGCCGCGGTGGCTACCGCCAGCAGCAGTCTCAGACGGCCTACT
GAGCTCTCCACTCTGTTTCCCGCCTGGGCCATCCAACCTTGAAGTCCTAAACCACACCTCAGTCACTAAAGGTCT
GTTTAAAGTTGTTCTGGTTGATTGCTTGTTGCCACAAAGGTGTGTTGAGCCCATTCATTTGCTGATTATATTTCT
GAGCTGCTACCACATGACAGACACAAGGCTCAGATGAAGAGGTGAATTGAACACGTTCCTGACCTC
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# FIGURE 4427A

AGAGGAGCTTCTTAATAACTTTGCCCAGCAAATAGGAGCCTGGAGATTCTGCCTGTACTTTCTCTCCAGCACTAG
GAATGACTATGTA**ATG**ATGTACAGTTTAACAGTTTTTGAGAATCTGATCAATAAAATGTGGCTTGGGGTCCCATC
TCAGGATAAGATGGAAATCCGTAGCTGTCTGCCCAAACTCCTTTTGGCTCACCATAAAACCTTACCTTACTTTAT
CCGGAACAAGCTCTGCAAAGTTATTGTTGATATTGGACGTCAGGATTGGCCCATGTTCTACCACGACTTTTTTAC
TAACATTTTACAGTTGATCCAGTCCCCTGTGACAACCCCCCTTGGGCTGATCATGTTGAAGACAACTTCAGAAGA
GCTGGCTTGTCCCCGTGAGGACCTCAGTGTGGCTCGGAAGGAGGAGTTGCGGAAGCTGCTACTGGACCAGGTGCA
GACAGTGCTTGGGCTACTGACAGGTATCTTGGAGACTGTCTGGGACAAACACAGTGTTACTGCTGCCACTCCACC
ACCATCCCCGACCTCAGGAGAAAGTGGTGACTTACTGAGTAACCTGTTGCAGAGTCCCAGTTCAGCCAAACTGTT
GAATCAGCCAATTCCCATCCTTGATGTGGAGAGTGAGTATATCTGTTCCCTGGCTTTGGAGTGCCTGGCCCATCT
CTTCAGTTGGATTCCTCTGTCTGCCAGCATCACCCCATCCCTCCTTACCACCATCTTCCACTTTGCACGATTTGG
CTGTGACATCCGGGCCAGAAAGATGGCGTCAGTTAACGGCAGCAGCCAGAACTGTGTCTCGGGTCAGGAGCGCGG
CCGGCTGGGGGTCCTGGCCATGTCCTGCATCAATGAACTCATGTCCAAGAACTGTGTGCCTATGGAATTTGAGGA
GTATTTACTGCGTATGTTCCAGCAGACTTTCTACCTCCTGCAGAAAATCACCAAGGATAACAATGCCCACACAGT
GAAGAGCAGGCTAGAAGAGCTCGATGAGAGCTATATCGAGAAGTTTACTGACTTTCTTCGGCTCTTTGTGAGTGT
TCACCTAAGAAGAATCGAGTCTTACTCCCAGTTCCCTGTGGTGGAGTTTTTGACACTTTTGTTCAAGTACACATT
TCATCAGCCTACTCATGAAGGTTACTTCTCTTGTTTGGATATCTGGACGCTGTTTTTGGACTATCTGACAAGTAA
AATTAAAAGTCGTCTTGGAGACAAGGAAGCAGTTCTCAACAGGTACGAAGATGCCCTGGTGCTCCTGCTCACAGA
GGTGTTGAATCGAATCCAGTTCAGATACAACCAAGCCCAGCTGGAGGAGTTGGATGATGAGACTCTGGATGACGA
TCAGCAGACGGAGTGGCAGCGGTACTTACGGCAGAGCTTGGAGGTGGTGGCCAAAGTGATGGAGCTCCTGCCCAC
GCACGCCTTCTCCACACTGTTCCCTGTTCTTCAGGACAATTTAGAAGTTTATTTGGGATTACAACAGTTTATAGT
CACTTCAGGGTCAGGACACAGGTTGAACATCACGGCGGAGAACGACTGCCGGCGGCTGCACTGCTCCCTGAGAGA
CTTGAGCTCCCTGCTGCAGGCCGTGGGCCGCCTGGCCGAGTACTTTATCGGGGATGTGTTTGCTGCACGGTTCAA
TGATGCCCTCACAGTCGTGGAAAGGTTGGTCAAAGTCACTCTGTACGGATCTCAGATAAAATTGTACAACATTGA
AACTGCTGTGCCATCAGTATTGAAACCTGACCTCATTGATGTGCATGCTCAGTCCCTGGCTGCGCTGCAGGCTTA
CTCTCACTGGTTAGCACAGTATTGCAGTGAAGTTCACCGGCAGAACACGCAGCAGTTCGTGACACTCATCTCTAC
TACCATGGATGCAATCACACCTCTAATCAGCACCAAGGTCCAAGACAAGCTGCTGCTATCTGCGTGCCACTTACT
GGTCTCACTGGCCACCACCGTGCGGCCCGTCTTTCTGATCAGCATCCCTGCAGTGCAGAAAGTATTCAACAGAAT
CACTGATGCCTCTGCCCTGCGACTTGTCGATAAGGCCCAGGTGTTGGTGTGCCGAGCCCTCTCTAACATCTTGCT
GCTTCCGTGGCCAAACCTTCCAGAGAATGAGCAGCAGTGGCCCGTGCGCTCCATCAACCACGCCAGCCTCATCTC
TGCACTCTCCCGGGACTATCGCAACCTGAAGCCCAGTGCTGTTGCCCCCACAGAGAAAGATGCCACTGGATGACAC
CAAACTGATTATCCACCAGACACTCAGCGTCTTAGAAGATATTGTGGAGAATATCTCGGGGGAGTCCACCAAGTC
TCGACAGATTTGCTACCAGTCGCTGCAGGAATCTGTTCAGGTCTCCCTGGCCCTCTTTCCAGCTTTTATCCATCA
GTCAGATGTGACTGATGAGATGCTGAGCTTCTTCCTCACTCTGTTTCGAGGCCTTAGAGTACAGATGGGTGTGCC
TTTCACTGAGCAAATCATACAGACTTTCCTCAACATGTTTACCAGAGAGCAGTTAGCCGAGAGCATCCTCCACGA
GGGCAGCACAGGCTGCCGGGTGGTGGAGAAGTTTCTGAAGATCCTGCAGGTGGTGGTCCAGGAGCCAGGCCAGGT
GTTCAAGCCCTTCCTCCCCAGCATCATCGCCCTGTGCATGGAGCAAGTGTATCCCATCATTGCCGAGCGTCCCTC
CCCTGATGTGAAGGCCGAGCTGTTTGAGCTCCTTTTCCGGACGCTCCATCACAACTGGAGGTACTTCTTCAAGTC
CACCGTGCTGGCCAGTGTCCAGAGGGGGATCGCTGAGGAGCAGATGGAGAATGAGCCCCAGTTCAGTGCCATCAT
GCAGGCTTTCGGACAGTCCTTTCTCCAGCCCGACATCCACCTTTTTAAACAAAATCTCTTCTACTTGGAGACTCT
CAACACCAAGCAGAAGCTGTACCACAAGAAGATCTTCCGGACTGCCATGCTGTTCCAGTTTGTGAACGTGCTGCT
CCAGGTCCTGGTCCACAAGTCCCATGATCTTCTGCAGGAGGAGATTGGCATCGCCATCTACAACATGGCCTCAGT
CGACTTTGATGGCTTCTTTGCCGCCTTCCTCCCAGAGTTCCTGACCAGCTGTGATGGTGTGGATGCCAACCAGAA
AAGTGTGCTGGGGCGGAATTTCAAGATGGATCGGGACCTGCCCTCATTCACCCAGAATGTGCACAGGCTGGTCAA
CGACCTGCGCTACTACAGACTCTGCAACGACAGCCTGCCCCCTGGCACTGTGAAGCTC**TAG**GCCTGCTACTGCCT
GGGGACACGGACTTCTGCTGCTGCCACCTGCGCCAGCCCTACCTTCCACCACAGATGTCTCCCAGATGGGCCTTG
GTCACACTCCTTGGCTTCTCCCACCGCAAGCAACGCTGCCTGCCTCTGCCGCTCCTCCACATCTTGCCGCTGCCC
AGCAGAGCTGGCTTCTGGGTCCACCTGAGCACTGGACGGTGCTCCCAGGGCGTTGGAGCAGGCGGAGGGGTGTGT
GGCCAGGTACTAGGAGGCACCAGGAAATCCCGCGGGGTGGCCCATGCAGACCAGGCGCACGTGGCTCATGGGGCA

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## FIGURE 4427B

GAATTGCCAAGGACAGCTCACGACAGTGCCACCTTCTCACCATTCCAGCCAAGGAGAGATGTGACGTTGGAACTG
CTCTGGCACTTCTGTCAAGCCTCCCCCGCCCCAATTGCCTTGAGATCTCTGCTCTTTGTCAGAGATTTGCAAAGA
CTCACGTTTTTGTTGTTTTCTCATCATTCCATTGTGATACTAAGAAACTAAGAAGCTTAATGAAAAGAAATAAAA
TGCCTATGTTGTTGTTCTAG

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# FIGURE 4428

MMYSLTVFENLINKMWLGVPSQDKMEIRSCLPKLLLAHHKTLPYFIRNKLCKVIVDIGRQDWPMFYHDFFTNILQ
LIQSPVTTPLGLIMLKTTSEELACPREDLSVARKEELRKLLLDQVQTVLGLLTGILETVWDKHSVTAATPPPSPT
SGESGDLLSNLLQSPSSAKLLNQPIPILDVESEYICSLALECLAHLFSWIPLSASITPSLLTTIFHFARFGCDIR
ARKMASVNGSSQNCVSGQERGRLGVLAMSCINELMSKNCVPMEFEEYLLRMFQQTFYLLQKITKDNNAHTVKSRL
EELDESYIEKFTDFLRLFVSVHLRRIESYSQFPVVEFLTLLFKYTFHQPTHEGYFSCLDIWTLFLDYLTSKIKSR
LGDKEAVLNRYEDALVLLLTEVLNRIQFRYNQAQLEELDDETLDDDQQTEWQRYLRQSLEVVAKVMELLPTHAFS
TLFPVLQDNLEVYLGLQQFIVTSGSGHRLNITAENDCRRLHCSLRDLSSLLQAVGRLAEYFIGDVFAARFNDALT
VVERLVKVTLYGSQIKLYNIETAVPSVLKPDLIDVHAQSLAALQAYSHWLAQYCSEVHRQNTQQFVTLISTTMDA
ITPLISTKVQDKLLLSACHLLVSLATTVRPVFLISIPAVQKVFNRITDASALRLVDKAQVLVCRALSNILLLPWP
NLPENEQQWPVRSINHASLISALSRDYRNLKPSAVAPQRKMPLDDTKLIIHQTLSVLEDIVENISGESTKSRQIC
YQSLQESVQVSLALFPAFIHQSDVTDEMLSFFLTLFRGLRVQMGVPFTEQIIQTFLNMFTREQLAESILHEGSTG
CRVVEKFLKILQVVVQEPGQVFKPFLPSIIALCMEQVYPIIAERPSPDVKAELFELLFRTLHHNWRYFFKSTVLA
SVQRGIAEEQMENEPQFSAIMQAFGQSFLQPDIHLFKQNLFYLETLNTKQKLYHKKIFRTAMLFQFVNVLLQVLV
HKSHDLLQEEIGIAIYNMASVDFDGFFAAFLPEFLTSCDGVDANQKSVLGRNFKMDRDLPSFTQNVHRLVNDLRY
YRLCNDSLPPGTVKL

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## FIGURE 4429

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TCTCTCTCGGCGTTTCCGCTGTCAGGGCCTGCGGTGTGACTCGCGGGCTCAGCTGGTCCGGCCGTAGCACCTCCG
CGCCGTCGCCATGTCGCGGTTTTTCACCACCGGTTCGGACAGCGAGTCCGAGTCGTCCTTGTCCGGGGAGGAGCT
CGTCACCAAACCTGTCGGAGGCAACTATGGCAAACAGCCATTGTTGCTGAGCGAGGATGAAGAAGATACCAAGAG
AGTTGTCCGCAGTGCCAAGGACAAGAGGTTTGAGGAGCTGACCAACCTTATCCGGACCATCCGTAATGCCATGAA
GATTCGTGATGTCACCAAGTGCCTGGAAGAGTTTGAGCTCCTGGGAAAAGCATATGGGAAGGCCAAAAGCATTGT
GGACAAAGAAGGTGTCCCCCGGTTCTATATCCGCATCCTGGCTGACCTAGAGGACTATCTTAATGAGCTTTGGGA
AGATAAGGAAGGGAAGAAGAAGATGAACAAGAACAATGCCAAGGCTCTGAGCACCTTGCGTCAGAAGATCCGAAA
ATACAACCGTGATTTCGAGTCCCATATCACAAGCTACAAGCAGAACCCCGAGCAGTCTGCGGATGAAGATGCTGA
GAAAAATGAGGAGGATTCAGAAGGCTCTTCAGATGAGGATGAGGATGAGGACGGAGTCAGTGCTGCAACTTTCTT
GAAGAAGAAATCAGAAGCTCCTTCTGGGGAGAGTCGCAAGTTCCTCAAAAAGATGGATGATGAAGATGAGGACTC
AGAAGATTCCGAAGATGATGAAGACTGGGACACAGGTTCCACATCTTCCGATTCCGACTCAGAGGAGGAAGAAGG
GAAACAAACCGCGCTGGCCTCAAGATTTCTTAAAAAGGCACCCACCACAGATGAGGACAAGAAGGCAGCCGAGAA
GAAACGGGAGGACAAAGCTAAGAAGAAGCACGACAGGAAATCCAAGCGCCTGGATGAGGAGGAGGAGGACAATGA
AGGCGGGGAGTGGGAAAGGGTCCGGGGCGGAGTGCCGTTGGTTAAGGAGAAGCCAAAAATGTTTGCCAAGGGAAC
TGAGATCACCCATGCTGTTGTTATCAAGAAACTGAATGAGATCCTACAGGCACGAGGCAAGAAGGGAACTGATCG
TGCTGCCCAGATTGAGCTGCTGCAACTGCTGGTTCAGATTGCAGCGGAAAACAACCTGGGAGAGGGCGTCATTGT
CAAGATCAAGTTCAATATCATCGCCTCTCTCTATGACTACAACCCCAACCTGGCAACCTACATGAAGCCAGAGAT
GTGGGGGAAGTGCCTGGACTGCATCAATGAGCTGATGGATATCCTGTTTGCAAATCCCAACATTTTTGTTGGAGA
GAATATTCTGGAAGAGAGTGAGAACCTGCACAACGCTGACCAGCCACTGCGTGTCCGTGGCTGCATCCTAACTCT
GGTGGAACGAATGGATGAAGAATTTACCAAAATAATGCAAAATACTGACCCTCACTCCCAAGAGTACGTGGAGCA
CTTGAAGGATGAGGCCCAGGTGTGTGCCATCATCGAGCGTGTGCAGCGCTACCTGGAGGAGAAGGGCACTACCGA
GGAGGTCTGCCGCATCTACCTGCTGCGCATCCTGCACACCTACTACAAGTTTGATTACAAGGCCCATCAGCGACA
GCTGACCCCGCCTGAGGGCTCCTCAAAGTCTGAGCAAGACCAGGCAGAAAATGAGGGCGAGGACTCGGCTGTGTT
GATGGAGAGACTGTGCAAGTACATCTACGCCAAGGACCGCACAGACCGGATCCGCACATGTGCCATCCTCTGCCA
CATCTACCACCATGCTCTGCACTCGCGCTGGTACCAGGCCCGCGACCTCATGCTCATGAGCCACTTGCAGGACAA
CATTCAGCATGCAGACCCGCCAGTGCAGATCCTTTACAACCGCACCATGGTGCAGCTGGGCATCTGTGCCTTCCG
CCAAGGCCTGACCAAGGACGCACACAACGCCCTGCTGGACATCCAGTCGAGTGGCCGAGCCAAGGAGCTTCTGGG
CCAGGGCCTGCTGCTGCGCAGCCTGCAGGAGCGCAACCAGGAGCAGGAGAAGGTGGAGCGGCGCCGTCAGGTCCC
CTTCCACCTGCACATCAACCTGGAGCTGCTGGAGTGTGTCTACCTGGTGTCTGCCATGCTCCTGGAGATCCCCTA
CATGGCCGCCCATGAGAGCGATGCCCGCCGACGCATGATCAGCAAGCAGTTCCACCACCAGCTGCGCGTGGGCGA
GCGACAGCCCCTGCTGGGTCCCCCTGAGTCCATGCGGGAACATGTGGTCGCTGCCTCCAAGGCCATGAAGATGGG
TGACTGGAAGACCTGTCACAGTTTTATCATCAATGAGAAGATGAATGGGAAAGTGTGGGACCTTTTCCCCGAGGC
TGACAAAGTCCGCACCATGCTGGTTAGGAAGATCCAGGAAGAGTCACTGAGGACCTACCTCTTCACCTACAGCAG
TGTCTATGACTCCATCAGCATGGAGACGCTGTCAGACATGTTTGAGCTGGATCTGCCCACTGTGCACTCCATCAT
CAGCAAAATGATCATTAATGAGGAGCTGATGGCCTCCCTGGACCAGCCAACACAGACAGTGGTGATGCACCGCAC
TGAGCCCACTGCCCAGCAGAACCTGGCTCTGCAGCTGGCCGAGAAGCTGGGCAGCCTGGTGGAGAACAACGAACG
GGTGTTTGACCACAAGCAGGGCACCTACGGGGGCTACTTCCGAGACCAGAAGGACGGCTACCGCAAAAACGAGGG
CTACATGCGCCGCGGTGGCTACCGCCAGCAGCAGTCTCAGACGGCCTACTGAGCTCTCCACTCTGTTTCCCGCCT
GGGCCATCCAACCTTGAAGTCCTAAACCACACCTCAGTCACTAAAGGTCTGTTTAAAGTTGTTCTGGTTGATTGC
TTGTTGCCACAAAGGTGTGTTGAGCCCATTCATTTGCTGATTATATTTCTGAGCTGCTACCACATGACAGACACA
AGGCTCAGATGAAGAGGTGAATTGAAC
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# FIGURE 4430A

ATGGACCAAGGCCCTTGGCGGTGCGTTGCGCATGCGCCCCGGGCGCCGCCGACTGAAGTAGCAATGGACGCGCTG
GAGTCGTTGTTGGACGAAGTCGCTCTGGAGGGGCTCGATGGCCTGTGTCTGCCAGCGCTGTGGAGCCGGCTGGAG
ACGCGAGTGCCGCCCTTCCCGCTGCCTTTGGAACCCTGCACGCAGGAGTTTCTCTGGCGGGCCCTCGCCACGCAC
CCGGGCATCAGCTTCTATGAGGAGCCTCGGGAGCGACCCGACCTACAGCTCCAGGACCGGTATGAAGAAATTGAT
TTGGAAACTGGAATTTTGGAGTCTAGGAGGGACCCGGTGGCTTTGGAGGATGTCTACCCCATTCATATGATCTTA
GAGAATAAGGATGGCATCCAGGGCTCATGCCGCTACTTTAAGGAGAGGAAAAACATTACCAATGACATCAGAACC
AAGTCCTTGCAGCCTCGCTGTACAATGGTGGAAGCCTTTGACAGGTGGGGGAAGAAACTGATCATCGTTGCCTCC
CAGGCCATGCGGTACAGGGCCTTGATAGGCCAGGAGGGGGATCCCGACCTGAAGCTGCCCGACTTCTCCTACTGC
ATCCTGGAACGGCTAGGCCGGTCCAGGTGGCAAGGGGAGCTCCAGCGAGACCTTCACACCACTGCTTTCAAGGTT
GATGCTGGGAAGCTGCACTATCACAGAAAAATTTTGAACAAAAACGGGCTGATTACAATGCAGTCCCATGTGATC
CGATTACCCACTGGAGCCCAGCAACACTCAATCCTCCTCCTACTGAACCGGTTTCATGTGGACAGGAGGAGCAAA
TACGACATCCTCATGGAGAAGCTTTCGGTCATGCTGAGCACACGGACTAACCACATAGAGACGCTGGGAAAGCTG
AGGGAAGAGCTGGGGCTGTGCGAAAGGACGTTTAAGCGTCTGTACCAGTATATGCTGAACGCCGGGCTAGCCAAG
GTGGTGTCTCTTCGCTTGCAAGAGATCCACCCTGAATGTGGACCTTGTAAGACAAAGAAAGGGACCGACGTCATG
GTTCGGTGCCTCAAGCTGCTGAAGGAATTTAAACGGAATGACCATGATGATGACGAGGACGAGGAGGTCATCTCC
AAGACAGTGCCTCCAGTGGACATTGTGTTCGAGCGGGATATGCTCACACAGACCTACGACCTCATTGAGCGCAGA
GGCACGAAAGGAATTTCCCAAGCTGAAATCCGAGTGGCTATGAATGTGGGAAAACTAGAAGCAAGAATGCTGTGC
CGACTTCTTCAAAGATTCAAAGTTGTCAAGGGATTCATGGAAGACGAAGGTCGGCAGCGAACCACCAAGTACATT
TCCTGCGTGTTTGCAGAGGAGAGCGACCTAAGCCGGCAGTACCAAAGAGAGAAGGCCCGCAGCGAGCTCTTGACC
ACCGTGAGCCTGGCGTCTATGCAGGAGGAGTCGCTTCTGCCTGAAGGCGAGGACACCTTCCTCTCTGAGTCGGAC
AGTGAGGAGGAGAGGAGCAGCAGCAAGCGGAGAGGCAGAGGGTCCCAGAAAGACACAAGAGCCTCTGCAAACCTC
CGGCCCAAGACCCAGCCTCATCACTCCACCCCAACCAAGGGTGGGTGGAAAGTTGTAAACCTACACCCATTGAAA
AAGCAGCCGCCCTCCTTCCCAGGAGCTGCTGAAGAGAGAGCCTGCCAGAGCCTTGCCAGCAGGGACAGCCTCTTA
GATACCAGCAGCGTCTCAGAACCCAACGTGTCCTTTGTCTCCCACTGTGCGGACAGCAACAGTGGTGACATAGCT
GTGATCGAGGAGGTCCGGATGGAAAAACCCAAAGGAGAGTAGCAGTTCCCTGAAGACTGGGAGGCACAGCTCAGGC
CAAGACAAACCACACGAAACTTACCGACTGCTGAAACGCAGGAATCTGATCATAGAAGCTGTCACCAATCTTCGC
TTAATCGAGAGTTTATTCACGATTCAGAAGATGATCATGGATCAGGAGAAGCAGGAAGGCGTGTCCACCAAGTGC
TGCAAGAAGTCCATTGTCCGCTTGGTGCGGAACCTGTCTGAGGAAGGTCTCTTGCGATTGTATCGGACCACTGTC
ATTCAAGATGGCATCAAGAAGAAGGTGGATCTGGTGGTGCACCCGTCCATGGACCAGAACGACCCTCTAGTGAGA
AGTGCCATCGAGCAGGTCCGCTTCCGGATCTCCAATTCAAGCACAGCCAACAGGGTTAAAACTTCCCAGCCTCCA
GTGCCCCAAGGGGGAGCAGAAGAAGACAGTCAAGGAAAAGAGGGCCCAAGTGGATCAGGGGACTCTCAGCTGAGT
GCTTCCTCTAGATCAGAAAGTGGACGGATGAAAAAAAAGTGATAATAAAATGGGCATAACCCCGCTTAGAAATTAT
CACCCCATTGTAGTTCCCGGACTGGGGCGTTCTCTAGGATTTCTGCCCAAAATGCCTCGCCTGCGGGTGGTCCAC
ATGTTTCTGTGGTACCTCATCTACGGGCACCCTGCCAGCAACACCGTGGAGAAGCCAAGCTTCATCAGTGAACGG
AGAACGATAAAGCAGGAGTCAGGCAGGGCAGGCGTCCGGCCGTCCTCCTCTGGAAGTGCCTGGGAGGCCTGCTCT
GAAGCCCCATCTAAAGGCAGCCAAGATGGTGTCACCTGGGAGGCTGAAGTGGAGCTTGCCACGGAGACAGTGTAT
GTCGACGATGCCTCGTGGATGCGCTACATCCCCCCAATCCCAGTCCACAGGGACTTCGGCTTTGGCTGGGCTCTC
GTCAGCGACATCCTCCTCTGCCTTCCCCTCTCCATCTTCATCCAGATTGTGCAAGTCAGCTACAAGGTGGACAAC
CTGGAGGAATTTCTGAACGACCCGCTGAAGAAGCACACGCTGATCCGCTTTCTCCCCAGGCCCATTCGGCAGCAG
CTTCTGTACAAGAGGCGTTACATTTTTTCGGTGGTGGAGAACCTTCAGAGGCTGTGCTACATGGGGCTGCTACAG
TTTGGTCCCACGGAAAAGTTTCAGGATAAAGATCAGGTCTTTATCTTCTTGAAGAAGAATGCAGTCATTGTTGAC
ACTACCATCTGCGACCCACATTACAACCTGGCCCGCAGCAGCGGCCCTTCGAGAGGCGCCTCTATGTCCTGAAC
TCAATGCAGGATGTGGAAAACTACTGGTTTGACCTGCAGTGCGTCTGCCTCAACACCCCACTAGGCGTGGTGCGC
TGCCCGCGCGTCAGGAAGAACAGCAGCACAGACCAGGGCAGCGACGAGGAGGGCAGCCTGCAGAAGGAGCAGGAG
AGCGCCATGGACAAGCACAACCTGGAGCGCAAGTGCGCCATGCTGGAGTACACCACTGGAAGCCGTGAGGTGGTG
GATGAAGGCTTGATCCCTGGAGATGGGCTGGGTGCCGCAGGGCTCGATTCCAGCTTCTACGGACACCTCAAGCGC
AACTGGATCTGGACCAGCTACATCATCAACCAGGCCAAAAAGGAGAACACTGCCGCAGAGAATGGACTCACAGTG
AGGCTCCAGACATTTCTGTCCAAGCGCCCAATGCCCCTCAGTGCCAGAGGCAACAGCAGGTTGAATATTTGGGGG

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**FIGURE 4430B**

GAAGCAAGAGTAGGCTCCGAGCTCTGTGCTGGCTGGGAAGAGCAGTTTGAGGTGGACCGAGAGCCCTCGCTGGAC
CGAAACCGGAGAGTGAGGGGTGGGAAAAGCCAGAAGCGGAAGCGGCTGAAGAAGGACCCTGGGAAGAAGATCAAG
AGAAAGAAGAAAGGAGAGTTCCCAGGAGAAAAAAGCAAAAGGCTGCGCTACCATGATGAAGCCGACCAGAGTGCC
CTGCAGCGGATGACGCGGCTTCGTGTCACCTGGTCTATGCAGGAGGATGGGCTGCTTGTGCTGTGCCGCATTGCC
AGCAATGTCCTCAACACCAAGGTGAAGGGCCCATTTGTCACCTGGCAGGTGGTACGGGACATTTTGCATGCCACG
TTTGAAGAGTCTTTGGATAAAACATCTCATTCCGTTGGACGAAGAGCTCGCTACATAGTCAAAAACCCACAGGCC
TATCTCAACTATAAAGTGTGCCTGGCCGAGGTGTACCAGGATAAAGCACTTGTTGGAGATTTCATGAATCGAAGA
GGTGACTATGATGACCCAAAGGTTTGTGCCAACGAGTTTAAAGAATTTGTGGAGAAGCTTAAAGAAAAGTTCAGT
TCAGCCCTAAGGAATTCTAACCTTGAAATCCCAGACACACTCCAGGAGCTGTTCGCCAGGTACCGAGTTTTGGCA
ATTGGGGATGAAAAAGATCAAACCAGGAAAGAGGATGAACTTAACAGCGTGGATGACATCCACTTTCTGGTGCTT
CAGAACCTGATCCAGAGCACGCTGGCCCTCTCAGACAGTCAGATGAAGTCCTACCAGTCATTCCAGACTTTCCGC
CTCTATCGGGAGTACAAGGACCACGTTCTTGTGAAGGCCTTCATGGAGTGCCAGAAGAGGAGCTTGGTCAACCGG
CGCCGGGTCAACCACACGCTGGGCCCCAAGAAGAACCGGGCCCTCCCCTTCGTGCCAATGTCCTACCAGCTATCC
CAGACCTACTACAGGATTTTTACGTGGCCGATTTCCAAGCACCATCTGCACGGAGTCATTCCAGTTTTTGGACAGA
ATGCGGGCTGCCGGCAAGTTGGACCAGCCTGATCGTTTCTCTTTCAAAGACCAGGATAATAACGAGCCCACAAAC
GACATGGTGGCCTTTTCACTGGACGGCCCTGGAGGAAATTGTGTGGCCGTCCTGACCCTCTTCTCTCTGGGCCTC
ATTTCTGTGGATGTCAGGATCCCGGAGCAGATCATCGTGGTAGACAGCTCAATGGTGGAGAATGAGGTCATCAAA
AGCTTGGGGAAGGACGGCAGCCTGGAGGATGACGAGGATGAAGAGGATGACTTGGACGAAGGTGTAGGGGGCAAG
CGCCGGAGCATGGAGGTGAAACCTGCGCAAGCCTCCCACACCAACTACCTGCTGATGAGGGGCTACTACTCCCCC
GGCATCGTCAGCACCCGCAACCTCAACCCCAACGACAGCATTGTGGTCAACTCCTGCCAGATGAAGTTCCAGCTC
CGCTGCACCCCTGTGCCCGCCCGGCTCAGGCCCGCTGCCGCTCCTCTGGAAGAGCTAACAATGGGAACCTCCTGC
CTCCCTGATACGTTCACCAAGCTGATAAACCCCCAGGAAAACACCTGCAGCTTGGAGGAGTTTGTCCTCCAGCTG
GAGCTGTCTGGGTATAGTCCCGAAGACCTGACTGCTGCCTTGGAGATCTTGGAAGCCATTATAGCCACGGGTTGT
TTTGGGATTGACAAGGAGGAGCTGCGCAGACGGTTCTCGGCCTTGGAGAAGGCAGGTGGTGGGCGCACCAGGACA
TTCGCAGATTGCATCCAGGCCCTCCTGGAGCAGCATCAGGTGCTGGAGGTCGGTGGCAACACTGCGCGCCTGGTA
GCCATGGGCTCTGCCTGGCCTTGGCTCCTGCACTCCGTGCGGCTGAAAGACAGAGAAGACGCCGACATCCAGAGA
AAGACCCCCAGGCCAGACCCCTGGAGGGGTCTTCCAGTGAGGACAGCCCCCCCGAGGGGCAGGCACCTCCTTCT
CACAGCCCCCGGGGCACCAAGAGGCGCGCCAGCTGGGCCAGTGAGAATGGGGAGACCGACGCCGAGGGCACCCAG
ATGACCCCTGCCAAGAGGCCAGCGCTCCAGGACTCAAATTTGGCCCCCAGCCTTGGGCCCGGAGCTGAAGATGGG
GCAGAAGCCCAGGCCCCATCTCCACCCCCAGCTCTTGAAGACACCGCTGCAGCGGGAGCAGCACAGGAAGACCAA
GAGGGTGTCGGTGAGTTCAGTTCCCCAGGCCAAGAGCAGCTGAGCGGCCAGGCGCAGCCTCCAGAGGGCTCTGAA
GACCCCAGAGGGTTCACAGAGAGTTTCGGGAGCTGCCAACATCTCCCAGGCAGCACGGGAAAGGGACTGTGAGAGT
GTCTGCTTCATCGGCCGGCCGTGGCGTGTCGTGGATGGCCACCTGAACCTTCCTGTATGCAAGGGTATGATGGAG
GCCATGCTGTACCACATCATGACCAGGCCTGGCATCCCCGAGAGCTCCCTGCTGCGCCACTACCAGGGGGTCCTG
CAGCCCGTCGCCGTGCTGGAGTTGCTCCAGGGCCTGGAGTCCCTCGGCTGCATCCGGAAGCGCTGGCTGAGAAAG
CCAAGGCCTGTCTCGCTCTTCTCTACACCCGTGGTGGAAGAGGTGGAAGTGCCCTCCAGCCTGGACGAGAGCCCC
ATGGCTTTCTATGAGCCCACCTTGGACTGTACCCTCCGGCTGGGCCGTGTGTTCCCCCACGAGGTCAACTGGAAC
AAGTGGATCCACCTCTAGGACCCCTGTGGGCGTCCCCTCCCTCCCAGCCACCGCCTGCCACACCACTCCTGCCTG
GTGCTCGGCAGACCCCACTGTGCCCTGGCCTTGGGTCTGCCGAGCCTCCTGCAGCAGGGGACGGGTGCTTTGGCC
AGAGTCACAGACTGACACGTTTCCCACTGTACTGGAACTCTGGAAAGAGGGGCTCCCCGACCTGCCCATCCCCCA
GGCTCTTCTGGGCCTTCCCCTTGGGAACTGGCCTCATCACACTGGGAGTTGGTGCTTCTTGTCTCTGGGTCTCCA
GAGTTTGCCCCGCCTGTGCACACCTCACATTCCAGACTCTAGCCATCTCGGCAGGATCTCCTGGCTCCTTGAGTG
CCCAGGTGCCACCAAGAGGAAGGGCCTTGTGGGATACACCTTGCAGAATAGGGATCGGTGTGCCCCGCTGCGAGG
GGCCCCCCATGGGGGCTGTGGCCCCTCCGCAGGCAGGACATCCCAACCCCTGGCTGGGACTGAACCACCCAGAGC
GGAGCGGCTCCCTTTTCAGCCTTGTGAGTCACCTGGCAGGCCCCAGCTGGGCTGGCTGTCCGTGTCCCTCAGCCT
GGCTGGTGATTCCTTGCAGG

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## FIGURE 4431

CGTATCCGCTAGCGCGGCCTGGGATGCGCTTGGGCTCCCTGTTCGTTCCCACATGCAGGGCAGCACAAGGAGAAT
GGGCGTCATGACTGATGTCCACCGGCGCTTCCTCCAGTTGCTGATGACCCATGGCGTGCTAGAGGAATGGGACGT
GAAGCGCTTGCAGACGCACTGCTACAAGGTCCATGACCGCAATGCCACCGTAGATAAGTTGGAGGACTTCATCAA
CAACATTAACAGTGTCTTGGAGTCCTTGTATATTGAGATAAAGAGAGGAGTCACGGAAGATGATGGGAGACCCAT
TTATGCGTTGGTGAATCTTGCTACAACTTCAATTTCCAAAATGGCTACGGATTTTGCAGAGAATGAACTGGATTT
'GTTTAGAAAGGCTCTGGAACTGATTATTGACTCAGAAACCGGCTTTGCGTCTTCCACAAACATATTGAACCTGGT
TGATCAACTTAAAGGCAAGAAGATGAGGAAGAAGGAAGCGGAGCAGGTGCTGCAGAAGTTTGTTCAAAACAAGTG
GCTGATTGAGAAGGAAGGGGAGTTCACCCTGCACGGCCGGGCCATCCTGGAGATGGAGCAATACATCCGGGAGAC
GTACCCCGACGCGGTGAAGATCTGCAATATCTGTCACAGCCTCCTCATCCAGGGTCAAAGCTGCGAAACCTGTGG
GATCAGGATGCACTTACCCTGCGTGGCCAAGTACTTCCAGTCGAATGCTGAACCGCGCTGCCCCCACTGCAACGA
CTACTGGCCCCACGAGATCCCAAAAGTCTTCGACCCTGAGAAGGAGAGGGAGTCTGGTGTCTTGAAATCGAACAA
AAAGTCCCTGCGGTCCAGGCAGCATTAGCCATCGTGCCCTGCTGAGGGGCTGGCTGCCTTGAGTGGCCTGATCGC
CACAGCCCTTCTTGGAAGAAAGGCGTCCGTGTTTCAGGTTCCACGCGAGTCACCTCTTTCGTCTTAATGTTCACC
GTCCACAGCTTTGGAATAAACCATCCTGGG

# FIGURE 4432

GTCGTGATCAGACGAGCGGTGAGCGATCGATACTCCTATGCTAGCCTCTGGCTCCTCAGGGGACACAGCCGAGTG
GTCGGACCAAACGCAACGAGTCTTCGCCAGCCCAAAGGCGACTCGACACCGTCCCAGCTGAAGAGAGGCACGGGA
CTGAACCAGCTGGTGGTGGCCCG**ATG**GCTGGAGACACCCACTGCCCCGCAGAGCCCCTGGCCAGAGAAGGCACTT
TATGGGAGGCCCTCAGGGCGCTCCTGCCGCACAGTAAAGAAGACCTGAAGTTGGACCTCGGGGAGAAAGTGGAGA
GGAGCGTGGTGACATTGTTGCAGCGAGCCACTGAGCTCTTCTACGAGGGCAGGAGGGACGAGTGTCTGCAGAGCA
GCGAGGTGATCCTGGACTACTCCTGGGAGAAGCTCAACACGGGCACATGGCAGGACGTAGACAAAGACTGGCGCC
GGGTCTACGCCATCGGCTGCCTCCTGAAAGCCCTGTGTCTGTGCCAGGCACCTGAGGATGCCAACACTGTGGCCG
CAGCCCTGCGGGGTCTGTGACATGGGCCTGCTGATGGGGGCAGCCATCCTGGGGGCATCCTTCTTAAAGTCGCTG
CCATCCTCCAGACACACCTCCCTGGAAAGAGGCCTGCCCGTGGCTCCCTCCCAGAGCAACCCTGCACAAAGAAAG
CAAGGGCGGACCATGGTTTGATTCCAGATGTGAAGTTAGAAAAAACAGTCCCCCGGCTGCACCGTCCGTCCCTCC
AGCATTTCAGGGAGCAGTTTTTGGTTCCAGGGAGGCCCGTGATCCTGAAAGGCGTGGCTGACCACTGGCCGTGCA
TGCAGAAGTGGAGTTTGGAGTATATCCAGGAGATCGCTGGCTGCCGAACTGTCCCAGTGGAAGTTGGTTCGAGGT
ACACAGATGAGGAATGGTCCCAGACCCTCATGACGGTCAACGAGTTCATCAGCAAATACATCGTGAATGAGCCAA
GGGACGTCGGGTACCTTGCTCAGCACCAGCTCTTTGACCAGATCCCGGAGTTGAAGCAGGACATCAGCATCCCCG
ACTACTGCAGCCTGGGCGATGGGGAGGAGGAGGAAATCACCATCAATGCCTGGTTTGGTCCCCAGGGAACCATCT
CCCCACTACATCAGGATCCCCAGCAAAACTTCCTAGTGCAGGTGATGGGGAGGAAGTACATCCGGCTGTATTCCC
CGCAGGAGTCAGGGGCTCTGTACCCTCATGACACGCACCTTCTCCATAACACGAGCCAGGTTGACGTGGAGAATC
CCGACCTGGAAAAGTTCCCCAAGTTTGCCAAGGCCCCATTCCTGTCCTGCATCCTGTCTCCTGGAGAGATCCTGT
TCATCCCGGTGAAATACTGGCATTACGTGCGGGCTCTGGATTTGAGCTTCTCGGTCAGCTTCTGGTGGTCG**TAGC**
CAGGATAGGAGCTGAAAGGGCCTGACATGCAGACAGCATTCATCTGTTCACTAATTTCCTGGGTCCTGGAATCTA
TAGAGACAAGCAGGACTGAACCTGTGTCCTGAAGAGCCTTCACTGCCCAGTGGCAGCCCTGGGGGGCTGAGCTCC
AGCACTGGACAGGCACAGAGCAGGGGCTGCCCAGGAAGGAGCACACTCCAGGCCAGGGGTGCATGGCAGAGGAAG
GTGGGGAGAGCCCAGAAGGACATTGCAGACAGACAGCCTGCATGGGGACTCTGGCATCAGAAAGCCGAATGTTTT
TGGGAAACGGGTGGGTCACACAGGCAGGGGTGAAACATGGGCTCTGAGGTTGGCTACCTGATTCAAACCCGGCCG
CGCTGTGCACCTGCTGGGTGACTTGGCCAGGATCCCCCACTTCGCTGTGCCCATATGGAAAAGAGGGCAAGGCCA
GTCCTCACTGCCGAGGGCCGAGAAGGCGGTGCCGAGCCCCTGCTGCTGCATGAACCTTAGCCGCTGTCACTGATC
CCAATTACTCTGATCCTTTTGCCCTTCCTTCCCATAACGGCCTGCTGGACGCCACAGCCTGAATACTGGAGAGAG
CTGGGCATTGCCCAGGTCACAGGAGAGAGTCCGTAGAGACCTGCGCAGGAGCCGGGACCCCTGCTGAGCAGTGGG
AGCTTTCTGTCATCCCCATGGCTCAAGGATAACCTACCTGCCTGCAGAGAAGTGCGAAGGTCTTGCTGGATGACT
TTTCACCCGCACTCACCCAGGAGCAGGCTCCCAAGTGAAGAAACCACCGAACCATCACCAGCTCCTAGAAGCCTC
CCTCCTACCACCTTCTAGTCACCATCCCCCAGAAGTAATGACTCTCAAACCTGGGGGATTTGAGGCCAGGGGGAG
AGCCAGGCTCTATGCTTTCTGTAATTGTGTCTCGTTTGTGTGCACGCAGGTTTGTTTTATGTTTTGGCCATTAAG
ATTTTCCCCAGCCCTC

## FIGURE 4433

MAGDTHCPAEPLAREGTLWEALRALLPHSKEDLKLDLGEKVERSVVTLLQRATELFYEGRRDECLQSSEVILDYS
WEKLNTGTWQDVDKDWRRVYAIGCLLKALCLCQAPEDANTVAAALRVCDMGLLMGAAILGDILLKVAAILQTHLP
GKRPARGSLPEQPCTKKARADHGLIPDVKLEKTVPRLHRPSLQHFREQFLVPGRPVILKGVADHWPCMQKWSLEY
IQEIAGCRTVPVEVGSRYTDEEWSQTLMTVNEFISKYIVNEPRDVGYLAQHQLFDQIPELKQDISIPDYCSLGDG
EEEEITINAWFGPQGTISPLHQDPQQNFLVQVMGRKYIRLYSPQESGALYPHDTHLLHNTSQVDVENPDLEKFPK
FAKAPFLSCILSPGEILFIPVKYWHYVRALDLSFSVSFWWS

4810/6881
# FIGURE 4434

GAGCAGTGTGAAGAAGAGGCGAGAACGACCCCCAGACCGACCAAAGCCCGCGCGCCACTGCATCCCGCGTCCAGC
ACCTACGTCCTGCTGCCGTCGCCGCCACCACCATGCCCAACTAAAAAGGCCCCTGCAAAGAAGGGAGAGAAGGTA
CCCAAAGGGAAAAAGGGAAAAGCTGATGCTGGCAAGGAGGGGAATAACCCTGCAGAAAATGGAGATGCCAAAACA
GACCAGGCACAGAAAGCTGAAGGTGCTGGAGATGCCAAGTGAAGTGTGTGCATTTTTGATAACTGTGTACTTCTG
GTGACTGTACAGTTTGGAATACTATTTTTTATCAAGTTTTATAAAAATGTGGAATTTTGTTTTACTTTTTTTTTT
TTTTAAAGCTATGTTGTTAGCACACAGAACACTTCATTGTTGTTTTTGGGGGAAGGGGCATATGTCACTAATAGA
ATGTCTCCAAAGCTGGATTGATGTGGAGAAAACACCTTTCCCTTCTAGTTTTGAGAGACTTCCTCTTGGCTCCCA
GGAGGAGGGATTCCCTGACTTTGACACACATGGCCACCTTGGCACAAAAGCCTTGTGGTATAGAAAGACAAATTT
GTTTTTATGTCCTCTTCTCCCTTTCCATCTTTCAGCATAGACTTAACTCCCTTAAGCCCAGACATCTGTTGGGAC
CTGACCCCTAGTCATTGGTTACCAGTGTGTCAGGCAATCTGGACTTTCCAGTGATGCCACTGAGATGGCACCTGT
CAAAAGAGCAGTGGTTCCATTTCTAGATTGTGGATCTTCAGATAAATTCTGCCATTTTCATTTCACTTCCTGAAA
GTCAGAGATGGCTTGTGTCCCTGTTCAGAGCATCAGATGAAGACTTCATTGGGTTTTATAGTGGCTTTCTGATTT
TTGGTAGTCCATTGAAGAAGGGAGTTTGAAAGTTGTTGTATACTGTTAACGATTGTCTGCCCATGTCCTGCCTGA
AATACCATGATTGTTTATGGAAAGTATCTTTAATAAAGCTGGATACAG

4811/6881
# FIGURE 4435

GAAGAGGCGAGAACGACCCCCAGACCGACCAAAGCCCGCGCGCCACTGCATCCCGCGTCCAGCACCTACGTCCTG
CTGCCGTCGCCGCCACCACCATGCCCAAGAGAAAGGCTGAAGGGGATGCTAAGGGAGATAAAGCCAAGGTGAAGG
ACGAACCACAGAGAAGATCCGCGAGGTTGTCTGCTAAACCTGCTCCTCCAAAGCCAGAGCCCAAGACTAAAAAGG
CCCCTGCAAAGAAGGGAGAGAAGGTACCCAAAGGGAAAAAGGGAAAAGCTGATGCTGGCAAGGAGGGGAATAACC
CTGCAGAAAATGGAGATGCCAAAACAGACCAGGCACAGAAAGCTGAAGGTGCTGGAGATGCCAAGTGAAGTGTGT
GCATTTTTGATAACTGTGTACTTCTGGTGACTGTACAGTTTGGAATACTATTTTTTATCAAGTTTTATAAAAATG
TGGAATTTTGTTTTACTTTTTTTTTTTTTAAAGCTATGTTGTTAGCACACAGAACACTTCATTGTTGTTTTTGG
GGGAAGGGGCATATGTCACTAATAGAATGTCTCCAAAGCTGGATTGATGTGGAGGATTCCCTGACTTTGACACAC
ATGGCCACCTTGGCACAAAAGCCTTGTGGTATAGAAAGACAAATT

4812/6881
# FIGURE 4436

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GTAGTAGCTGCCAGGCTGTCCCCCGCCCTGCCCGGCCCGAGCCCCGCGGGCCGCCGCCGCCACCGCCGCCATGAA
GAAGCAGTTCAACCGCATGAAGCAGCTGGCTAACCAGACCGTGGGCAGAGCTGAGAAAACAGAAGTCCTTAGTGA
AGATCTATTACAGATTGAGAGACGCCTGGACACGGTGCGGTCAATATGCCACCATTCCCATAAGCGCTTGGTGGC
ATGTTTCCAGGGCCAGCATGGCACCGATGCCGAGAGGAGACACAAAAAACTGCCTCTGACAGCTCTTGCTCAAAA
TATGCAAGAAGCATCGACTCAGCTGGAAGACTCTCTCCTGGGGAAGATGCTGGAGACGTGTGGAGATGCTGAGAA
TCAGCTGGCTCTCGAGCTCTCCCAGCACGAAGTCTTTGTTGAGAAGGAGATCGTGGACCCTCTGTACGGCATAGC
TGAGGTGGAGATTCCCAACATCCAGAAGCAGAGGGAGCAGCTTGCAAGATTGGTGTTAGACTGGGATTCAGTCAG
AGCCAGGTGGAACCAAGCTCACAAATCCTCAGGAACCAACTTTCAGGGGCTTCCATCAAAAATAGATACTCTAAA
GGAAGAGATGGATGAAGCTGGAAATAAAGTAGAACAGTGCAAGGATCAACTTGCAGCAGACATGTACAACTTTAT
GGCCAAAGAAGGGGAGTATGGCAAATTCTTTGTTACGTTATTAGAAGCCCAAGCAGATTACCATAGAAAAGCATT
AGCAGTCTTAGAAAAGACCCTCCCCGAAATGCGAGCCCATCAAGATAAGTGGGCGGAAAAACCAGCCTTTGGGAC
TCCCCTAGAAGAACACCTGAAGAGGAGCGGGCGCGAGATTGCGCTGCCCATTGAAGCCTGTGTCATGCTGCTTCT
GGAGACAGGCATGAAGGAGGAGGGCCTTTTCCGAATTGGGGCTGGGGCCTCCAAGTTAAAGAAGCTGAAAGCTGC
TTTGGACTGTTCTACTTCTCACCTGGATGAGTTCTATTCAGACCCCCATGCTGTAGCAGGTGCTTTAAAATCCTA
TTTACGGGAATTGCCTGAACCTTTGATGACTTTTAATCTGTATGAAGAATGGACACAAGTTGCAAGTGTGCAGGA
TCAAGACAAAAAACTTCAAGACTTGTGGAGAACATGTCAGAAGTTGCCACCACAAAATTTTGTTAACTTTAGATA
TTTGATCAAGTTCCTTGCAAAGCTTGCTCAGACCAGCGATGTGAATAAAATGACTCCCAGCAACATTGCGATTGT
GTTAGCCCCTAACTTGTTATGGGCCAGAAACGAAGGAACACTTGCTGAAATGGCAGCAGCCACATCCGTCCATGT
GGTTGCAGTGATTGAACCCATCATTCAGCATGCCGACTGGTTCTTCCCTGAAGAGGTGGAATTTAATGTATCAGA
AGCATTTGTACCTCTCACCACCCCGAGTTCTAATCACTCATTCCACACTGGAAACGACTCTGACTCGGGGGACCCT
GGAGAGGAAGCGGCCTGCTAGCATGGCGGTGATGGAAGGAGACTTGGTGAAGAAGGAAAGTCCTCCCAAACCGAA
GGACCCTGTATCTGCAGCTGTGCCAGCACCAGGGAGAAACAACAGTCAGATAGCATCTGGCCAAAATCAGCCCCA
GGCAGCTGCTGGCTCCCACCAGCTCTCCATGGGCCAACCTCACAATGCTGCAGGGCCCAGCCCGCATACACTGCG
CCGAGCTGTTAAAAAAACCCGCTCCAGCACCCCCGAAACCGGGCAACCCACCTCCTGGCCACCCCGGGGGCCAGAG
TTCTTCAGGAACATCTCAGCATCCACCCAGTCTGTCACCAAAGCCACCCACCCGAAGCCCCTCTCCTCCCACCCA
GCACACGGGCCAGCCTCCAGGCCAGCCCTCCGCCCCCTCCCAGCTCTCAGCACCCCGGAGGTACTCCAGCAGCTT
GTCTCCAATCCAAGCTCCCAATCACCCACCGCCGCAGCCCCCTACGCAGGCCACGCCACTGATGCACACCAAACC
CAATAGCCAGGGCCCTCCCAACCCCATGGCATTGCCCAGTGAGCATGGACTTGAGCAGCCATCTCACACCCCTCC
CCAGACTCCAACGCCCCCCAGTACTCCGCCCCTAGGAAAACAGAACCCCAGTCTGCCAGCTCCTCAGACCCTGGC
AGGGGGTAACCCTGAAACTGCACAGCCACATGCTGGAACCTTACCGAGACCGAGACCAGTACCAAAGCCAAGGAA
CCGGCCCAGCGTGCCCCCACCCCCCCAACCTCCTGGTGTCCACTCAGCTGGGGACAGCAGCCTCACCAACACAGC
ACCAACAGCTTCCAAGATAGTAACAGACTCCAATTCCAGGGTCTCAGAACCGCATCGCAGCATCTTTCCTGAAGT
GCACTCAGACTCAGCCAGCAAAGACGTGCCTGGCCGCATCCTGCTGGATATAGACAATGATACCGAGAGCACTGC
CCTGTGAAGAAAGCCCTTTCCCAGCCCTCCACCACTTCCACCCTGGCGAGTGGAGCAGGGGCAGGCGAACCTCTT
TCTTTGCAGACCGAACAGTGAAAAGCTTTCAGTGGAGGACAAAGGAGGGCCTCACTGTGTGGGACCTGGCCTTCT
GCACGGCCCAAGGAGAACCTGGAGGCCACCACTAAAGCTGAATGACCTGTGTCTTGAAGAAGTTGGCTTTCTTTA
CATGGGAAGGAAATCATGCCAAAAAAATCCAAAACAAAGAAGTACCTGGAGTGGAGAGAGTATTCCTGCTGAAAC
GCGCATAGGAAGCTTTTGTCCCTGCTGTTAATGCGGGCAGCACCTACAGCAACTTGGAATGAGTAAGAAGCAGTG
CGTTAACTATCTATTTAATAAAATGCGCTCATTATGCAAGTCGCCTACTCTCTGCTACCTGGACGTTCATTCTTA
TGTATTAGGAGGGAGGCTGCGCTCCTTCAGACTTGCTGCAGAATCATTTTGTATCATGTATGGTCTGTGTCTCCC
CAGTCCCCTCAGAACCATGCCCATGGATGGTGACTGCTGGCTCTGTCACCTCATCAAACTGGATGTGACCCATGC
CGCCTCGTTGGATTGTCGGAATGTAGACAGAAATGTACTGTTCTTTTTTTTTTTTTTAAACAATGTAATTGCTAC
TTGATAAGGACCGAACATTATTCTAGTTTCATGTTTAATTTGAATTAAATATATTCTGTGGTTTATATG
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4813/6881
# FIGURE 4437

MKKQFNRMKQLANQTVGRAEKTEVLSEDLLQIERRLDTVRSICHHSHKRLVACFQGQHGTDAERRHKKLPLTALA
QNMQEASTQLEDSLLGKMLETCGDAENQLALELSQHEVFVEKEIVDPLYGIAEVEIPNIQKQREQLARLVLDWDS
VRARWNQAHKSSGTNFQGLPSKIDTLKEEMDEAGNKVEQCKDQLAADMYNFMAKEGEYGKFFVTLLEAQADYHRK
ALAVLEKTLPEMRAHQDKWAEKPAFGTPLEEHLKRSGREIALPIEACVMLLLETGMKEEGLFRIGAGASKLKKLK
AALDCSTSHLDEFYSDPHAVAGALKSYLRELPEPLMTFNLYEEWTQVASVQDQDKKLQDLWRTCQKLPPQNFVNF
RYLIKFLAKLAQTSDVNKMTPSNIAIVLAPNLLWARNEGTLAEMAAATSVHVVAVIEPIIQHADWFFPEEVEFNV
SEAFVPLTTPSSNHSFHTGNDSDSGTLERKRPASMAVMEGDLVKKESPPKPKDPVSAAVPAPGRNNSQIASGQNQ
PQAAAGSHQLSMGQPHNAAGPSPHTLRRAVKKPAPAPPKPGNPPPGHPGGQSSSGTSQHPPSLSPKPPTRSPSPP
TQHTGQPPGQPSAPSQLSAPRRYSSSLSPIQAPNHPPPQPPTQATPLMHTKPNSQGPPNPMALPSEHGLEQPSHT
PPQTPTPPSTPPLGKQNPSLPAPQTLAGGNPETAQPHAGTLPRPRPVPKPRNRPSVPPPPQPPGVHSAGDSSLTN
TAPTASKIVTDSNSRVSEPHRSIFPEVHSDSASKDVPGRILLDIDNDTESTAL

**FIGURE 4438A**

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GAAACCTCTAGGTCCACCACCTCCATCTTACACGTGTTTCCGTTGTGGTAAACCTGGACATTATATTAAGAATTG
CCCAACAAATGGGGATAAAAACTTTGAATCTGGTCCTAGGATTAAAAAGAGCACTGGAATTCCCAGAAGTTTCAT
GATGGAAGTGAAAGATCCTAATATGAAAGGTGCAATGCTTACCAACACTGGAAAATATGCAATACCAACTATAGA
TGCAGAAGCATATGCAATTGGGAAGAAAGAGAAACCTCCCTTCTTACCAGAGGAGCCATCTTCTTCCTCAGAAGA
AGATGATCCTATCCCAGATGAATTGTTGTGTCTCATCTGCAAGGATATTATGACTGATGCTGTTGTGATTCCCTG
CTGTGGAAACAGTTACTGTGATGAATGTATAAGAACAGCACTCCTGGAATCAGATGAGCACACATGTCCGACGTG
TCATCAAAATGATGTTTCTCCTGATGCTTTAATTGCCAATAAATTTTTACGACAGGCTGTAAATAACTTCAAAAA
TGAAACTGGCTATACAAAAAGACTACGAAACAGTTACCTCCTCCACCACCCCCAATACCACCTCCGAGACCACT
GATTCAGAGGAACCTACAACCTCTGATGAGATCTCCGATATCAAGACAACAAGATCCTCTTATGATTCCAGTGAC
ATCTTCATCAACTCACCCAGCTCCGTCTATATCTTCATTAACTTCTAATCAGTCTTCCTTGGCCCCTCCTGTGTC
TGGAAATCCGTCTTCTGCTCCAGCTCCTGTACCTGATATAACTGCAACAGTATCCATATCAGTTCATTCAGAAAA
ATCAGATGGACCTTTTCGGGATTCTGATAATAAAATATTGCCAGCTGCAGCTCTTGCATCAGAGCACTCAAAGGG
AACCTCCTCAATTGCAATTACCGCTCTTATGGAAGAGAAGGGTTACCAGGTGCCTGTTCTTGGAACCCCATCTTT
GCTTGGACAGTCATTATTGCATGGACAGTTGATCCCCACAACTGGTCCAGTAAGAATAAATACTGCTCGTCCAGG
TGGTGGTCGACCAGGCTGGGAACATTCCAACAAACTTGGCTATCTGGTTTCTCCACCACAACAAATTAGAAGAGG
GGAGAGGAGCTGCTACAGAAGTATAAACCGTGGGCGACACCACAGCGAAAGATCACAGAGGACTCAAGGCCCGTC
ACTACCAGCAACTCCAGTCTTTGTACCTGTTCCACCACCTCCTTTGTATCCGCCTCCTCCCCATACACTTCCTCT
CCCTCCGGGTGTTCCTCCTCCACAGTTTTCTCCTCAGTTTCCTCCTGGCCAGCCACCACCCGCTGGGTATAGTGT
CCCTCCTCCAGGGTTTCCTCCAGCTCCTGCCAATTTATCAACACCTTGGGTATCATCAGGAGTGCAGACAGCTCA
TTCAAATACCATCCCAACAACACAAGCACCACCTTTGTCCAGGGAAGAATTCTATAGAGAGCAGCGACGACTAAA
AGAAGAGTCTAAATCTCCCTATAGTGGTTCTTCGTATTCAAGAAGTTCATATACTTATTCTAAATCAAGATCTGG
TTCAACACGTTCACGCTCTTATTCTCGATCATTCAGCCGCTCACATTCTCGTTCCTATTCACGGTCACCTCCATA
CCCCAGAAGAGGCAGAGGCAAGAGCCGCAATTACCGTTCACGGTCTAGATCTCATGGATATCATCGATCTAGGTC
AAGGTCACCCCCTTACAGACGCTATCATTCACGATCAAGATCTCCTCAAGCGTTTAGGGGACAGTCTCCTAATAA
ACGTAATGTACCTCAAGGGGAAACAGAACGTGAATATTTTAATAGATACAGAGAAGTTCCACCACCATATGACAT
GAAAGCATATTATGGGAGAAGTGTTGACTTTAGAGACCCATTTGAAAAAGAACGCTACCGAGAATGGGAGAGAAA
ATATAGAGAGTGGTATGAAAAATATTATAAAGGTTATGCTGCTGGAGCACAGCCTAGACCCTCAGCAAATAGAGA
GAACTTTTCTCCAGAGAGATTTTTGCCACTTAACATCAGGAATTCTCCCTTCACAAGAGGCCGCAGAGAAGACTA
TGTTGGTGGGCAAAGTCATAGAAGTCGAAACATAGGTAGCAACTATCCAGAAAAGCTTTCAGCAAGAGATGGTCA
CAATCAGAAGGATAATACAAAGTCAAAAGAGAAGGAGAGTGAAAACGCTCCAGGAGATGGTAAAGGAAATAAGCA
TAAGAAACACAGAAAAAGAAGAAAGGGGAGGAAAGTGAGGGTTTTCTGAACCCAGAGTTATTAGAGACTTCTAG
GAAATCAAGAGAACCTACAGGTGTTGAAGAAAATAAAACAGACTCATTGTTTGTTCTCCCAAGTAGAGATGATGC
CACACCTGTTAGAGATGAACCAATGGATGCAGAATCAATCACTTTTAAATCAGTGTCTGAAAAAGACAAGAGAGA
AAGGGATAAACCAAAAGCAAAGGGTGATAAAACCAAACGGAAGAATGATGGATCTGCTGTGTCCAAAAAAGAAAA
TATTGTAAAACCTGCTAAAGGACCCCAAGAAAAGTAGATGGAGAACGTGAGAGATCTCCTCGATCTGAACCTCC
AATTAAAAAAGCCAAAGAGGAGACTCCGAAGACTGACAATACTAAATCATCATCTTCCTCTCAGAAGGATGAAAA
AATCACTGGAACCCCCAGAAAAGCTCACTCTAAATCAGCAAAAGAACACCAAGAAACAAAACCAGTCAAAGAGGA
AAAAGTGAAGAAGGACTATTCCAAAGATGTCAAATCAGAAAAGCTAACAACTAAGGAAGAAAAGGCCAAGAAGCC
TAATGAGAAAAACAAACCACTTGATAATAAGGGAGAAAAAAGAAAAAGAAAAACTGAAGAAAAAGGCGTAGATAA
AGATTTTGAGTCTTCTTCAATGAAAATCTCGAAACTAGAAGTGACTGAAATAGTGAAACCATCACCAAAGCGCAA
AATGGAACCTGATACTGAAAAAATGGATAGGACCCCTGAAAAGGACAAAATTTCTTTAAGTGCGCCAGCCAAAAA
AATCAAACTCAACAGAGAAACTGGGAAGAAAATTGGAAGTACAGAAAATATATCAAACACAAAAGAACCCTCTGA
AAAATTGGAGTCAACATCTAGCAAAGTTAAACAAGAAAAAGTCAAAGGAAGGTCAGACGAAAAGTGACTGGAAC
TGAAGGATCCAGCTCAACTCTGGTGGATTACACCAGTACGAGCTCAACTGGAGGCAGTCCTGTGCGGAAATCTGA
AGAAAAACAGATACAAAGCGAACTGTGATTAAAACGATGGAAGAATATAATAATGACAATACCGCGCCAGCTGA
AGATGTTATCATTATGATTCAGGTTCCTCAATCCAAATGGGATAAAGATGACTTTGAATCTGAAGAAGAAGATGT
TAAATCCACACAGCCTATATCAAGTGTAGGAAAACCTGCTAGTGTTATAAAAAAATGTTAGTACAAAGCCATCAAA
TATAGTCAAGTATCCTGAGAAAGAAAGTGAGCCATCCGAGAAAATTCAGAAATTCACCAAGGACGTGAGCCATGA
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4815/6881
# FIGURE 4438B

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AATCATACAACATGAGGTTAAAAGTTCAAAAAACTCTGCATCTAGTGAAAAAGGGAAAACCAAAGATCGAGATTA
TTCAGTGTTGGAAAAGGAGAACCCTGAAAAGAGGAAGAACAGCACTCAGCCAGAGAAAGAGAGTAATTTGGACCG
TCTGAATGAACAAGGAAATTTTAAAAGTCTGTCTCAATCTTCCAAAGAGGCTAGAACGTCAGATAAACATGATTC
CACTCGTGCTTCCTCAAATAAAGACTTCACTCCCAATAGAGACAAAAAAACTGACTATGACACCAGAGAGTATTC
AAGTTCCAAACGTAGAGATGAAAAGAATGAATTAACAAGACGAAAAGACTCTCCTTCTCGGAATAAAGATTCTGC
ATCTGGACAGAAAAATAAACCAAGGGAAGAGAGAGATTTGCCTAAAAAAGGAACAGGAGATTCCAAAAAAAGTAA
TTCTAGTCCCTCAAGAGACAGAAAACCTCATGATCACAAAGCCACTTATGATACTAAACGGCCAAATGAAGAGAC
AAAATCTGTAGATAAAAATCCTTGTAAGGATCGTGAGAAGCATGTATTAGAAGCAAGGAACAATAAAGAGTCAAG
TGGCAATAAACTACTTTATATACTTAACCCACCAGAGACACAGGTTGAAAAAGAGCAAATTACTGGGCAAATTGA
CAAGAGTACTGTCAAGCCTAAACCCCAGTTAAGTCATTCCTCTAGACTTTCCTCTGACTTAACTAGAGAAACTGA
TGAAGCTGCTTTTGAACCAGACTATAATGAAAGTGACAGTGAAAGTAATGTTTCTGTAAAAGAAGAGGAATCTTC
AGGAAACATTTCTAAGGACCTGAAAGATAAAATAGTGGAGAAAGCAAAAGAGAGCCTGGACACAGCAGCAGTTGT
CCAGGTGGGCATAAGCAGGAATCAGAGCCACAGCAGCCCCAGCGTCAGCCCCAGCAGAAGCCACAGTCCTTCTGG
AAGCCAGACCCGAAGCCACAGTAGCAGTGCCAGCTCAGCAGAAAGTCAGGACAGCAAGAAGAAGAAGAAAAAGAA
GGAAAAGAAAAAACACAAGAAACATAAAAAGCATAAGAAGCATAAGAAACATGCAGGCACTGAAGTGGAATTGGA
AAAAAGCCAAAAACACAAACACAAGAAAAAGAAGTCAAAGAAGAACAAAGATAAAGAGAAGGAGAAGGAGAAAGA
TGACCAAAAAGTGAAATCTGTCACTGTGTAAAAAGACAGATTTTTTAAATTGACTTAATTACTAAGTCATCTGTA
TTAAATTTTGTTATAATGTAAAGAGATTCAAGCCTTGTAAATAATGACATGGAAGACCCTGTGCTGCACTTAAAA
TATTGCTGCTTGATTATTTGATTTTTACATCAGAGCTTTATAACACGAACTTTTGTACAGAATTGTGAGTTGTGA
CCATGTAACATGAGAGGTTTTGCTAGGGCCTATTATTTTTAACCACCATTAATTAGTTGGGGTGGAGTTTACTGT
AATGTGAAATTTTCACATTTGAATTTTTTAATTGCCTGGCAAAAGCTGATATAAGTTCTAAAATATCAGCAGAAT
GATTTGCTGAATTCATTACAACCCTGTTATGTCACTTTTTGATTACAATAAAAGTTTTCAGTAAACTTTTC
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4816/6881
# FIGURE 4439

MATTKAIDDSSASISLAQLTKTANLAEANASEEDKIKAMMSQSGHEYDPINYMKKPLGPPPPSYTCFRCGKPGHY
IKNCPTNGDKNFESGPRIKKSTGIPRSFMMEVKDPNMKGAMLTNTGKYAIPTIDAEAYAIGKKEKPPFLPEEPSS
SSEEDDPIPDELLCLICKDIMTDAVVIPCCGNSYCDECIRTALLESDEHTCPTCHQNDVSPDALIANKFLRQAVN
NFKNETGYTKRLRKQLPPPPPPPIPPPRPLIQRNLQPLMRSPISRQQDPLMIPVTSSSTHPAPSISSLTSNQSSLA
PPVSGNPSSAPAPVPDITATVSISVHSEKSDGPFRDSDNKILPAAALASEHSKGTSSIAITALMEEKGYQVPVLG
TPSLLGQSLLHGQLIPTTGPVRINTARPGGGRPGWEHSNKLGYLVSPPQQIRRGERSCYRSINRGRHHSERSQRT
QGPSLPATPVFVPVPPPPLYPPPPHTLPLPPGVPPPQFSPQFPPGQPPPAGYSVPPPGFPPAPANLSTPWVSSGV
QTAHSNTIPTTQAPPLSREEFYREQRRLKEESKSPYSGSSYSRSSYTYSKSRSGSTRSRSYSRSFSRSHSRSYSR
SPPYPRRGRGKSRNYRSRSRSHGYHRSRSRSPPYRRYHSRSRSPQAFRGQSPNKRNVPQGETEREYFNRYREVPP
PYDMKAYYGRSVDFRDPFEKERYREWERKYREWYEKYYKGYAAGAQPRPSANRENFSPERFLPLNIRNSPFTRGR
REDYVGGQSHRSRNIGSNYPEKLSARDGHNQKDNTKSKEKESENAPGDGKGNKHKKHRKRRKGEESEGFLNPELL
ETSRKSREPTGVEENKTDSLFVLPSRDDATPVRDEPMDAESITFKSVSEKDKRERDKPKAKGDKTKRKNDGSAVS
KKENIVKPAKGPQEKVDGERERSPRSEPPIKKAKEETPKTDNTKSSSSSQKDEKITGTPRKAHSKSAKEHQETKP
VKEEKVKKDYSKDVKSEKLTTKEEKAKKPNEKNKPLDNKGEKRKRKTEEKGVDKDFESSSMKISKLEVTEIVKPS
PKRKMEPDTEKMDRTPEKDKISLSAPAKKIKLNRETGKKIGSTENISNTKEPSEKLESTSSKVKQEKVKGKVRRK
VTGTEGSSSTLVDYTSTSSTGGSPVRKSEEKTDTKRTVIKTMEEYNNDNTAPAEDVIIMIQVPQSKWDKDDFESE
EEDVKSTQPISSVGKPASVIKNVSTKPSNIVKYPEKESEPSEKIQKFTKDVSHEIIQHEVKSSKNSASSEKGKTK
DRDYSVLEKENPEKRKNSTQPEKESNLDRLNEQGNFKSLSQSSKEARTSDKHDSTRASSNKDFTPNRDKKTDYDT
REYSSSKRRDEKNELTRRKDSPSRNKDSASGQKNKPREERDLPKKGTGDSKKSNSSPSRDRKPHDHKATYDTKRP
NEETKSVDKNPCKDREKHVLEARNNKESSGNKLLYILNPPETQVEKEQITGQIDKSTVKPKPQLSHSSRLSSDLT
RETDEAAFEPDYNESDSESNVSVKEEESSGNISKDLKDKIVEKAKESLDTAAVVQVGISRNQSHSSPSVSPSRSH
SPSGSQTRSHSSSASSAESQDSKKKKKKKEKKKHKKHKKHKKHKKHAGTEVELEKSQKHKHKKKKSKKNKDKEKE
KEKDDQKVKSVTV

4817/6881
# FIGURE 4440

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TGACATTGTGCCCGTTGGCGGATTCTCGATTTCCCCTCTTCCCCGTCCTCGTCCTCCTCCTCCCCCATGAAGTGA
TTCTGAGTATCGGGGGGTCTCTGGATTATTGTTCTGACGAACCCCTGCTTGTGGTTGGGGGGTATTTAATCTGAG
GCCTTAGGGTCCTTCGGTGTCTTTGAGTGTGTTGTGTGTACATATTTTACTCTTAAAGTTTATAAATATACGTAT
ATTGAGAGTGTCCACGTCTCCTCGCTGAACCTTAGGAATCCCTTGGCACCATGTCCTGTGTGCATTATAAATTTT
CCTCTAAACTCAACTATGATACCGTCACCTTTGATGGGCTCCACATCTCCCTCTGCGACTTAAAGAAGCAGATTA
TGGGGAGAGAGAAGCTGAAAGCTGCCGACTGCGACCTGCAGATCACCAATGCGCAGACGAAAGAAGGTAAGGGCC
GCTTGGTCTTAAGATATTTGGTGGCTGGAGAGAGATACTAGCTAGAAGGTGCCTGGCAGGAAGCTAACCGCCATT
ATGTCTCTAGTGGGGACTGTTCGTTCTAGTACTTTGGATACAACTTTCATTGATAGCCAAGGTTTGCAGCAGTTG
GCCTTGGAGTTTCACTGGTTTATTTTATTTCTGCATACTTGGGTCATCTGTAACAGGCTAACCCAAAACGTGGAA
GCCTGATTATTCTTCTCGCTGTTTTTTAAAATGAGGGAGGGAGGAGAGGGGGATAGCTATCTAGACTCTTTGAGT
GCTTGTCTTAGGGCGTTTTCTAACTTATTTTCCATCAGGAGGGCAGGAGAGCCTGTGCAAAGCTTGTTTGTTCAA
TCAGC
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4818/6881
# FIGURE 4441

MSCVHYKFSSKLNYDTVTFDGLHISLCDLKKQIMGREKLKAADCDLQITNAQTKEGKGRLVLRYLVAGERY

4819/6881
# FIGURE 4442

GGCACGAGGGAGCGGTGCGGAGGCTCTGCTCGGATCGAGGTCTGCAGCGCAGCTTCGGGAGC**ATG**AGTGCTGCAG
TGACTGCAGGGAAGCTGGCACGGGCACCGGCCGACCCTGGGAAAGCCGGGGTCCCCGGAGTTGCAGCTCCCGGAG
CTCCGGCGGCGGCTCCACCGGCGAAAGAGATCCCGGAGGTCCTAGTGGACCCACGCAGCCGGCGGCGCTATGTGC
GGGGCCGCTTTTTGGGCAAGGGCGGCTTTGCCAAGTGCTTCGAGATCTCGGACGCGGACACCAAGGAGGTGTTCG
CGGGCAAGATTGTGCCTAAGTCTCTGCTGCTCAAGCCGCACCAGAGGGAGAAGATGTCCATGGAAATATCCATTC
ACCGCAGCCTCGCCCACCAGCACGTCGTAGGATTCCACGGCTTTTTCGAGGACAACGACTTCGTGTTCGTGGTGT
TGGAGCTCTGCCGCCGGAGGTCTCTCCTGGAGCTGCACAAGAGGAGGAAAGCCCTGACTGAGCCTGAGGCCCGAT
ACTACCTACGGCAAATTGTGCTTGGCTGCCAGTACCTGCACCGAAACCGAGTTATTCATCGAGACCTCAAGCTGG
GCAACCTTTTCCTGAATGAAGATCTGGAGGTGAAAATAGGGGATTTTGGACTGGCAACCAAAGTCGAATATGACG
GGGAGAGGAAGAAGACCCTGTGTGGGACTCCTAATTACATAGCTCCCGAGGTGCTGAGCAAGAAAGGGCACAGTT
TCGAGGTGGATGTGTGGTCCATTGGGTGTATCATGTATACCTTGTTAGTGGGCAAACCACCTTTTGAGACTTCTT
GCCTAAAAGAGACCTACCTCCGGATCAAGAAGAATGAATACAGTATTCCCAAGCACATCAACCCCGTGGCCGCCT
CCCTCATCCAGAAGATGCTTCAGACAGATCCCACTGCCCGCCCAACCATTAACGAGCTGCTTAATGACGAGTTCT
TTACTTCTGGCTATATCCCTGCCCGTCTCCCCATCACCTGCCTGACCATTCCACCAAGGTTTTCGATTGCTCCCA
GCAGCCTGGACCCCAGCAACCGGAAGCCCCTCACAGTCCTCAATAAAGGCTTGGAGAACCCCCTGCCTGAGCGTC
CCCGGGAAAAAGAAGAACCAGTGGTTCGAGAGACAGGTGAGGTGGTCGACTGCCACCTCAGTGACATGCTGCAGC
AGCTGCACAGTGTCAATGCCTCCAAGCCCTCGGAGCGTGGGCTGGTCAGGCAAGAGGAGGCTGAGGATCCTGCCT
GCATCCCCATCTTCTGGGTCAGCAAGTGGGTGGACTATTCGGACAAGTACGGCCTTGGGTATCAGCTCTGTGATA
ACAGCGTGGGGGTGCTCTTCAATGACTCAACACGCCTCATCCTCTACAATGATGGTGACAGCCTGCAGTACATAG
AGCGTGACGGCACTGAGTCCTACCTCACCGTGAGTTCCCATCCCAACTCCTTGATGAAGAAGATCACCCTCCTTA
AATATTTCCGCAATTACATGAGCGAGCACTTGCTGAAGGCAGGTGCCAACATCACGCCGCGCGAAGGTGATGAGC
TCGCCCGGCTGCCCTACCTACGGACCTGGTTCCGCACCCGCAGCGCCATCATCCTGCACCTCAGCAACGGCAGCG
TGCAGATCAACTTCTTCCAGGATCACACCAAGCTCATCTTGTGCCCACTGATGGCAGCCGTGACCTACATCGACG
AGAAGCGGGACTTCCGCACATACCGCCTGAGTCTCCTGGAGGAGTACGGCTGCTGCAAGGAGCTGGCCAGCCGGC
TCCGCTACGCCCGCACTATGGTGGACAAGCTGCTGAGCTCACGCTCGGCCAGCAACCGTCTCAAGGCCTCC**TAA**T
AGCTGCCCTCCCCTCCGGACTGGTGCCCTCCTCACTCCCACCTGCATCTGGGGCCCATACTGGTTGGCTCCCGCG
GTGCCATGTCTGCAGTGTGCCCCCCAGCCCCGGTGGCTGGGCAGAGCTGCATCATCCTTGCAGGTGGGGGTTGCT
GTGTAAGTTATTTTTGTACATGTTCGGGTGTGGGTTCTACAGCCTTGTCCCCCTCCCCCTCAACCCCACCATATG
AATTGTACAGAATATTTCTATTGAATTCGGAACTGTCCTTTCCTTGGCTTTATGCACATTAAACAGATGTGAATA
TTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

4820/6881
## FIGURE 4443

MSAAVTAGKLARAPADPGKAGVPGVAAPGAPAAAPPAKEIPEVLVDPRSRRRYVRGRFLGKGGFAKCFEISDADT
KEVFAGKIVPKSLLLKPHQREKMSMEISIHRSLAHQHVVGFHGFFEDNDFVFVVLELCRRRSLLELHKRRKALTE
PEARYYLRQIVLGCQYLHRNRVIHRDLKLGNLFLNEDLEVKIGDFGLATKVEYDGERKKTLCGTPNYIAPEVLSK
KGHSFEVDVWSIGCIMYTLLVGKPPFETSCLKETYLRIKKNEYSIPKHINPVAASLIQKMLQTDPTARPTINELL
NDEFFTSGYIPARLPITCLTIPPRFSIAPSSLDPSNRKPLTVLNKGLENPLPERPREKEEPVVRETGEVVDCHLS
DMLQQLHSVNASKPSERGLVRQEEAEDPACIPIFWVSKWVDYSDKYGLGYQLCDNSVGVLFNDSTRLILYNDGDS
LQYIERDGTESYLTVSSHPNSLMKKITLLKYFRNYMSEHLLKAGANITPREGDELARLPYLRTWFRTRSAIILHL
SNGSVQINFFQDHTKLILCPLMAAVTYIDEKRDFRTYRLSLLEEYGCCKELASRLRYARTMVDKLLSSRSASNRL
KAS

# FIGURE 4444

GGCACGAGGAAAGACTGACCGACTGACTCTGACAGGATCCGGGGCTGAGGGAAGGAGGCGGCGGCC**ATG**GAGTTG
GGCGAGCTGCTCTACAACAAGTCTGAGTACATCGAGACGGCATCTGGGAACAAAGTCAGTCGCCAGTCAGTGTTG
TGTGGAAGCCAGAACATCGTTCTCAATGGCAAGACCATTGTGATGAATGACTGTATTATCCGAGGGGATCTGGCA
AATGTAAGAGTTGGACGTCATTGTGTTGTGAAAAGTCGTAGTGTCATAAGGCCACCATTCAAGAAGTTCAGCAAA
GGTGTTGCATTCTTTCCTTTACATATTGGAGACCATGTCTTTATTGAGGAAGATTGTGTGGTCAACGCAGCACAG
ATTGGTTCCTATGTTCATGTTGGGAAGAACTGTGTGATTGGGCGCCGATGTGTGTTGAAAGACTGCTGCAAAATT
CTTGACAACACAGTATTACCTCCAGAAACTGTGGTTCCACCATTCACTGTCTTCTCAGGCTGCCCAGGACTCTTC
TCAGGGGAGCTCCCGGAGTGCACTCAGGAGCTGATGATTGACGTCACCAAGAGCTACTACCAGAAGTTTTTGCCC
CTGACGCAAGTC**TAG**CATCTCTGCCTCATGTCTTGAATCTGCTTGAGCTCTAAGATGAACCTGGGGACAAAGTGA
GCCAGTCAGCACCTACAAAGAGCTTTTGTGTCTTTGACATCTACCACCCTCCTCCTTTTAAAAAATTTCTTTAGA
ATTTCTCAATCTTCAAGGCTCTAAGTGCTTAAGAATTCACTAACAGACAGACCATCTGGAGGAGCTGTCTTCAAA
TGCTGTGCTTACACCTTATCTATGAACAGTCACTTTGTACCATTATCTGTGGAACACAGAATCATCTGTTCCCAA
CACTCCAGCCCCTTGGTCCTGTGGATGGCTGGATCCCGCCTGAAACGGACCTGCAGAGCAGCAGCACCCTTCCGG
TGTGGAGGCTATGTAGCTGGTGCGCTGCTCACGGCCATTCACTGCCCATGCTGAGCGCCTCTCACACAGGTAATG
CCCAGCTTTTCTGCTGCTAACACATTTGGCCAGTTGTTGCAGTTGCTCATCATCTTGGGAAAGGTGTTTGTGACT
TTTCAGAGCCCAGATTCCTGTTGTCTATTAAAACTTGAAGGGAGGGGTGAATAGTGTTTCTCTCTTCTTCCCAAA
ATGACCTTAGCTGTCCTAGGATAGTTAGTAAAAGACTTTTTAGCATTTTGACCTAGGGCCTTTGGCTTTCACTAA
AAGTGGGGACCTCAGTATCCCAGATTGTAATTTTGCCAAGTGTTAGATTTGAGTCTCTCATGTGGATGCATTAGT
CAGGTGGTTACTCCTTGCTTCAAGGTACTTACCTTATTTCATTGAAGACACCGCATTTGTGAACTCTTGCTTCCT
GGCCTAGAACCATTCAGCCTACCCTGTATTTGCCATAAACTCCACAATTCACACCAAAATGTCTGTACTTAGAGC
TAATTCGCATATATACAGGAAGGGCTCTTAGAATCAGTTTGTGGGCACAGAGCCTCAGGAGTAAATGAAGTTACT
AGGGCTGTTCTTACCATCTCCTTCTGGCCAAATAGCACAACATTTCCTCGTTCTGCTCTGACCTCTTAGCTTAGA
AGGAAGATTCAGAAGTGAGGGGCTAAGAAGGTTGTCCTTGCCTAATGCTCTGATCTGTAAGTGAATAGGGCAGAA
CAGTTCAGCCTTGAGGTTAGAATTTAGCAGGAGCTATCCTGACTTAATATCCAGTTGTGGGGTTTGCAAAACAAA
ACAGCTGTATGTAATCATTGCCACTAGTTCCATCTAGAACTCCTTTCTAGTTTGTTATTTTTAAAATGTTTATAC
ATAAAACCACCAAAATACATAGCTTCGACAAGATGGAAGTTTATTTCTCTCTCCCATAACAGTGCAGTGATAGTC
AGCTGGTCCAGGCCAGGCAAGGGGCTGGTCCATGATGTCATCAGGCACCCAGGTTCCTACTGTCTTGCCATGTGG
CCACAGTTAGCAACAAAGGAGGCTGTAAATTTAGTTTCTACTTGGGCAGCCAAAACTCTGAGGAAGGAGATTCTG
CTAGTAAAAAGGAGTGGGGGAAGAATGGCCATTGGGAGACAACAAGCAGACTCAACCAGGCCTCTTTGTTGGCTT
CCTTTCCTCCTGCTGCACATGAGCCTTCGCCTTGCATTTGGAGCCATGACAGCTGATAGCTCCAGACCTGCATCC
TCCTAGCTTGGGGGCTCTGAATGAAAGGTTTCTTCCCTTCCAGTTCGAATTTGGAAACTCCCAAAGTTCTCAATG
GTTTGTTGTGAGTTCCATGTCCTCTTGGATCAGTCACTGTGGCCATGCATGTTTGGCCACATGATTAATCCAGTC
TGGGTCATGACCTTTTCTTCATCCAAAACAAGGTGATGGGAAGACAAAAACAATAGCTACTACAAACAATAGGAG
TTTATAATTATGTGCTGATGTATTCGAAGATGTGTTGACAGTCGTGAGTGTGTATCCTAGGAAAGGCGAGCTGGA
CTCTGTCTCCATGGTGGCTCTCACCCCAGGGACCTAGGAACAGCCTGTCACCACACAATTACTTTTATAACCCTG
GAGATGAAAATCTCCTTGTCCTCAAAATACTTCCAGAAGAACAACCAGATGGGAAGGACCTTGGTTGGGACTCTT
TCCAGTTCACTTGGGGCAGAGGGAATTTAATGGCTCACGTAGCTGAAAAGGATGGGCTAGATTGGGCTTCAGGCT
GCATCCCAGGACTCCAAACAGGGATCTGTCTCTTTGGCTCTCAGCTCTGCTTTCATTTGAGTTGGCTTTATTCTT
GGGCTTCACAGTGTGGCCCCACAGCACCAGTTATTGATAAAAGAGCTCCCCTTTGCTGACAGAACTGCTGGATT
TGGTTCTCATTGGTCCAGACGAGGAAGGTATCCAGCCTCAAGTCATCATTGTGGCCAGGAAGATGGAATACACCA
AATGGACAGGCCTGGCATGTACCCACAGAGACTGAGAGTTGGTGCTGGTGGTTGTGGTGGCAGATGATATTACCT
GAAGAAGGGACGAATGGGTGCTGGGCAGGACAAAGCATCAGCTGTCCAGTTCAGGCCTCTCCTCTTTCCCTGGTG
TCTTCATTTTCCTCCGTCTCCCTGCTGTCCCTTACCCTCTGCCCAATCTCTCATTACTCCTGGTCTTGGGAGTTG
CCTTCTGAGGATACTCCACTGGGGGTACCTGAGCCTGGATTAGAGGGCAGGGGGAGGATATTGCCTAGCCAAAGT
GGGTGTTCAATAAAGAACCATTTGGAGATGGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAA

4822/6881
# FIGURE 4445

MELGELLYNKSEYIETASGNKVSRQSVLCGSQNIVLNGKTIVMNDCIIRGDLANVRVGRHCVVKSRSVIRPPFKK
FSKGVAFFPLHIGDHVFIEEDCVVNAAQIGSYVHVGKNCVIGRRCVLKDCCKILDNTVLPPETVVPPFTVFSGCP
GLFSGELPECTQELMIDVTKSYYQKFLPLTQV

4823/6881
# FIGURE 4446

AGTGCATCCTGGGTTGGCGTAGCC<u>ATG</u>GCGTCTCGTGTCCTTTCAGCCTATGTCAGCCGCCTGCCCGCGGCCTTT
GCGCCGCTGCCCCGGGTCCGGATGCTGGCCGTGGCCCGGCCTCTCAGCACTGCTCTCTGCTCCGCGGGGACCCAG
ACGAGGCTCGGGACTTTGCAGCCGGCCTTAGTGCTCGCGCAGGTTCCTGGTAGAGTTACACAGTTGTGCCGCCAG
TATAGCGACATGCCTCCTTTGACGTTAGAGGGCATCCAGGACCGTGTTCTTTACGTATTGAAACTCTATGACAAG
ATTGACCCAGAGAAGCTTTCAGTAAATTCTCATTTTATGAAAGACCTGGGCTTAGACAGTTTGGACCAAGTGGAG
ATTATCATGGCCATGGAAGACGAATTTGGGTTTGAAATTCCTGATATAGATGCTGAAAAGTTAATGTGTCCACAA
GAAATTGTAGATTACATTGCAGATAAGAAAGATGTATATGAA<u>TAA</u>GTATCAGACCCTTTGGCTTTGCTGAGAGA
GGACTCAGATGATAGTGACGAATGTCTGGCAGTGAGGACACATTTTGGCATTCTTGCTGACTCTGACAGAGTGAT
TCTGATGGACTTGTATTTAAATTGTATGTGTTTTACTCTTTGAAAATAAATCTATAAAACCAA

4824/6881
## FIGURE 4447

MASRVLSAYVSRLPAAFAPLPRVRMLAVARPLSTALCSAGTQTRLGTLQPALVLAQVPGRVTQLCRQYSDMPPLT
LEGIQDRVLYVLKLYDKIDPEKLSVNSHFMKDLGLDSLDQVEIIMAMEDEFGFEIPDIDAEKLMCPQEIVDYIAD
KKDVYE

4825/6881
## FIGURE 4448

GTTTTTCCATGTTGCCCAGGCTGGTCTCAAACTCCTGGGCTCAAGCAATCCTTCTGTCTCAGCCTCCCCAAGTAC
TGGGATTACAGGCATGTCCCACCATGCCCAGACTAATATTTACTTTTAATCAGACTAAGATAGGGTTACTACTTG
AGTTGCTATGGCTCCAGCTGAAAGCCTGTGCAGTCATATCATGGGTAAACATTTGCTTTATGCTAAAAATATGGT
GGACCTGGCATTACAGCTATTACAAATCTCCTAAGGTGTCTCAGGTAGTGTATTAGTTACTTTTCATACTGCTAT
GAAGAAATACTCGAGACTGGGTAATTTATAAAGGAAAAGAGGTTTAATGTACTCACAGTTCCACAAGGCTGGGGA
GGCCTCAGAATCATGGTGGAAGGCAAAGAAGGAGCAAAGGTACGTCTTACATGGCTGCAGGAAAGAGAGCACGTG
CAGGGAAACTGCCCTTTATAAAACCATCAGATTTAGTGAGATGTATTCACTATCACAAGAACAGTATGGGAAAAA
CCTGCCCCCATGATTTGATTACCTCCTACCAGGTCCCTCCCACGACACATGGGGATTATGGGAACTACAATTCAA
GATGAAATTTGGGTGGGGACGCAGCCAAACCATATCGGGTAGCAACAACCTAGGGTCAGTTTTGCAGGTGGTAAA
GCCATTTACCAAGATAGTTGTAGGTAAAGAAGGGCAGATTTATTAGAGAAATTATGAAAATATGTTGCAGTGGGC
AGCTCAGCAGAGAAGGGGCTACCTGCAAAGAGGCAGGGGCTGGAGGAAAGTTTTATAGGGTCCTGCTGAAGGGTG
CTACGTGTGGAATGAGGTCATTGTGCCCGCAGGTTGTTTGTGATTAGCTGTCTCTAACAATTGTTCATACAGTAA
TTGTTCATTATTGTTCTCAACTTGGGGCTCTCCCCAACCTGGGGACCCTTCCTTATTGTTGCTTACTTATCAGGA
CTCCACATAAGGGTGTGGAAACTTCATTCATTCATATCTTCAACACAAATTGTAGGTAGCCTGTTTTTTAAAAAA
TTTATTCAACAAATATTTAGTCCAAGCCACTGTTACTTATTACCCTCTCTACTTCTGTATGGACTTTTAACTATC
TCTGACACTATTCACTATTCTTCCACATTCTCTATTATTTATACCTATGGTAAAATTTGCCAGTTTGACCATGCA
ACTAATACTCACAGGGAATATATAGAGTCTAGAAGAAAATATACAGGTCCTTAGAGGCTGCTCTGCCAACAAAAC
CATAATGCAGGAACAAACATCACAACTATGCCAAATAATCAATCCTACAATGTCCAAAATTTTACTTTAAAACTG
GAATTTCCAGACTTCCTTTCTGCATTAACCAGTTTAACTAGATAGTAATGAAATATCCCTCTACTTTATGCTGTG
ATAGTTTATTTATTTATTTGAGAGTTTATTTATTTATTTTGAGACAACAGAGCGAGACTCCGTCTCA

4826/6881
# FIGURE 4449

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TCTCTCTCGGCGTTTCCGCTGTCAGGGCCTGCGGTGTGACTCGCGGGCTCAGCTGGTCCGGCCGTAGCACCTCCG
CGCCGTCGCCATGTCGCGGTTTTTCACCACCGGTTCGGACAGCGAGTCCGAGTCGTCCTTGTCCGGGGAGGAGCT
CGTCACCAAACCTGTCGGAGGCAACTATGGCAAACAGCCATTGTTGCTGAGCGAGGATGAAGAAGATACCAAGAG
AGTTGTCCGCAGTGCCAAGGACAAGAGGTTTGAGGAGCTGACCAACCTTATCCGGACCATCCGTAATGCCATGAA
GATTCGTGATGTCACCAAGTGCCTGGAAGAGTTTGAGCTCCTGGGAAAAGCATATGGGAAGGCCAAAAGCATTGT
GGACAAAGAAGGTGTCCCCCGGTTCTATATCCGCATCCTGGCTGACCTAGAGGACTATCTTAATGAGCTTTGGGA
AGATAAGGAAGGGAAGAAGAAGATGAACAAGAACAATGCCAAGGCTCTGAGCACCTTGCGTCAGAAGATCCGAAA
ATACAACCGTGATTTCGAGTCCCATATCACAAGCTACAAGCAGAACCCCGAGCAGTCTGCGGATGAAGATGCTGA
GAAAAATGAGGAGGATTCAGAAGGCTCTTCAGATGAGGATGAGGATGAGGACGGAGTCAGTGCTGCAACTTTCTT
GAAGAAGAAATCAGAAGCTCCTTCTGGGGAGAGTCGCAAGTTCCTCAAAAAGATGGATGATGAAGATGAGGACTC
AGAAGATTCCGAAGATGATGAAGACTGGGACACAGGTTCCACATCTTCCGATTCCGACTCAGAGGAGGAAGAAGG
GAAACAAACCGCGCTGGCCTCAAGATTTCTTAAAAAGGCACCCACCACAGATGAGGACAAGAAGGCAGCCGAGAA
GAAACGGGAGGACAAAGCTAAGAAGAAGCACGACAGGAAATCCAAGCGCCTGGATGAGGAGGAGGAGGACAATGA
AGGCGGGGAGTGGGAAAGGGTCCGGGGCGGAGTGCCGTTGGTTAAGGAGAAGCCAAAAATGTTTGCCAAGGGAAC
TGAGATCACCCATGCTGTTGTTATCAAGAAACTGAATGAGATCCTACAGGCACGAGGCAAGAAGGGAACTGATCG
TGCTGCCCAGATTGAGCTGCTGCAACTGCTGGTTCAGATTGCAGCGGAAAACAACCTGGGAGAGGGCGTCATTGT
CAAGATCAAGTTCAATATCATCGCCTCTCTCTATGACTACAACCCCAACCTGGCAACCTACATGAAGCCAGAGAT
GTGGGGGAAGTGCCTGGACTGCATCAATGAGCTGATGGATATCCTGTTTGCAAATCCCAACATTTTTGTTGGAGA
GAATATTCTGGAAGAGAGTGAGAACCTGCACAACGCTGACCAGCCACTGCGTGTCCGTGGCTGCATCCTAACTCT
GGTGGAACGAATGGATGAAGAATTTACCAAAATAATGCAAAATACTGACCCTCACTCCCAAGAGTACGTGGAGCA
CTTGAAGGATGAGGCCCAGGTGTGTGCCATCATCGAGCGTGTGCAGCGCTACCTGGAGGAGAAGGGCACTACCGA
GGAGGTCTGCCGCATCTACCTGCTGCGCATCCTGCACACCTACTACAAGTTTGATTACAAGGCCCATCAGCGACA
GCTGACCCCGCCTGAGGGCTCCTCAAAGTCTGAGCAAGACCAGGCAGAAAATGAGGGCGAGGACTCGGCTGTGTT
GATGGAGAGACTGTGCAAGTACATCTACGCCAAGGACCGCACAGACCGGATCCGCACATGTGCCATCCTCTGCCA
CATCTACCACCATGCTCTGCACTCGCGCTGGTACCAGGCCCGCGACCTCATGCTCATGAGCCACTTGCAGGACAA
CATTCAGCATGCAGACCCGCCAGTGCAGATCCTTTACAACCGCACCATGGTGCAGCTGGGCATCTGTGCCTTCCG
CCAAGGCCTGACCAAGGACGCACACAACGCCCTGCTGGACATCCAGTCGAGTGGCCGAGCCAAGGAGCTTCTGGG
CCAGGGCCTGCTGCTGCGCAGCCTGCAGGAGCGCAACCAGGAGCAGGAGAAGGTGGAGCGGCGCCGTCAGGTCCC
CTTCCACCTGCACATCAACCTGGAGCTGCTGGAGTGTGTCTACCTGGTGTCTGCCATGCTCCTGGAGATCCCCTA
CATGGCCGCCCATGAGAGCGATGCCCGCCGACGCATGATCAGCAAGCAGTTCCACCACCAGCTGCGCGTGGGCGA
GCGACAGCCCCTGCTGGGTCCCCCTGAGTCCATGCGGGAACATGTGGTCGCTGCCTCCAAGGCCATGAAGATGGG
TGACTGGAAGACCTGTCACAGTTTTATCATCAATGAGAAGATGAATGGGAAAGTGTGGGACCTTTTCCCCGAGGC
TGACAAAGTCCGCACCATGCTGGTTAGGAAGATCCAGGAAGAGTCACTGAGGACCTACCTCTTCACCTACAGCAG
TGTCTATGACTCCATCAGCATGGAGACGCTGTCAGACATGTTTGAGCTGGATCTGCCCACTGTGCACTCCATCAT
CAGCAAAATGATCATTAATGAGGAGCTGATGGCCTCCCTGGACCAGCCAACACAGACAGTGGTGATGCACCGCAC
TGAGCCCACTGCCCAGCAGAACCTGGCTCTGCAGCTGGCCGAGAAGCTGGGCAGCCTGGTGGAGAACAACGAACG
GGTGTTTGACCACAAGCAGGGCACCTACGGGGGCTACTTCCGAGACCAGAAGGACGGCTACCGCAAAAACGAGGG
CTACATGCGCCGCGGTGGCTACCGCCAGCAGCAGTCTCAGACGGCCTACTGAGCTCTCCACTCTGTTTCCCGCCT
GGGCCATCCAACCTTGAAGTCCTAAACCACACCTCAGTCACTAAAGGTCTGTTTAAAGTTGTTCTGGTTGATTGC
TTGTTGCCACAAAGGTGTGTTGAGCCCATTCATTTGCTGATTATACTTCTGAGCTGCTACCACATGACAGACACA
AGGCTCAGATGAAGAGGTGAATTGAAC
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4827/6881
## FIGURE 4450

MSRFFTTGSDSESESSLSGEELVTKPVGGNYGKQPLLLSEDEEDTKRVVRSAKDKRFEELTNLIRTIRNAMKIRD
VTKCLEEFELLGKAYGKAKSIVDKEGVPRFYIRILADLEDYLNELWEDKEGKKKMNKNNAKALSTLRQKIRKYNR
DFESHITSYKQNPEQSADEDAEKNEEDSEGSSDEDEDEDGVSAATFLKKKSEAPSGESRKFLKKMDDEDEDSEDS
EDDEDWDTGSTSSDSDSEEEEGKQTALASRFLKKAPTTDEDKKAAEKKREDKAKKKHDRKSKRLDEEEEDNEGGE
WERVRGGVPLVKEKPKMFAKGTEITHAVVIKKLNEILQARGKKGTDRAAQIELLQLLVQIAAENNLGEGVIVKIK
FNIIASLYDYNPNLATYMKPEMWGKCLDCINELMDILFANPNIFVGENILEESENLHNADQPLRVRGCILTLVER
MDEEFTKIMQNTDPHSQEYVEHLKDEAQVCAIIERVQRYLEEKGTTEEVCRIYLLRILHTYYKFDYKAHQRQLTP
PEGSSKSEQDQAENEGEDSAVLMERLCKYIYAKDRTDRIRTCAILCHIYHHALHSRWYQARDLMLMSHLQDNIQH
ADPPVQILYNRTMVQLGICAFRQGLTKDAHNALLDIQSSGRAKELLGQGLLLRSLQERNQEQEKVERRRQVPFHL
HINLELLECVYLVSAMLLEIPYMAAHESDARRRMISKQFHHQLRVGERQPLLGPPESMREHVVAASKAMKMGDWK
TCHSFIINEKMNGKVWDLFPEADKVRTMLVRKIQEESLRTYLFTYSSVYDSISMETLSDMFELDLPTVHSIISKM
IINEELMASLDQPTQTVVMHRTEPTAQQNLALQLAEKLGSLVENNERVFDHKQGTYGGYFRDQKDGYRKNEGYMR
RGGYRQQQSQTAY

4828/6881
# FIGURE 4451

GTGCATGCCGTGGGTCTGACGGCTTGAGTAGCGCTAGGGAGAATCCCTGCAGGTAATATTTGACTTTTGCTTCAT
ATTAATCTGAGTGGAAAATAAAAGGGCCCTCTTCTCCTCTCGCTTCCCTGCCGGGCAGGCGCC**ATG**GCGGAAGCC
TCGGCGACGGGCGCCTGCGGAGAGGCGATGGCAGCGGCGGAAGGCTCCTCGGGCCCGGCGGGCTTGACTCTGGGC
CGGAGCTTCTCGAACTACCGGCCCTTCGAGCCCCAGGCGTTGGGCCTCAGCCCGAGCTGGCGGCTGACGGGCTTC
TCCGGCATGAAGGGCTGAGGCTGCAAGGTCCCGCAGGAGGCGCTGCTCAAACTCCTGGCGGGACTGACGCGGCCG
GACGTGCGGCCCCCGCTGGGCCGGGGCCTGGTGGGTGGCCAGGAAGAGGCGTCCCAGGAAGCCGGCCTGCCGGCA
GGAGCGGGCCCCAGCCCCACCTTTCCAGCCCTGGGCATCGGGATGGACTCCTGCGTCATCCCCCTGAGGCACGGG
GGCCTGTCACTGGTGCAGACCACGGACTTCTTTTACCCCTTGGTAGAAGATCCCTACATGATGGGGCGCATAGCT
TGTGCCAACGTGCTGAGTGACCTCTACGCCATGGGGATTACTGAGTGTGACAACATGTTGATGTTACTCAGCGTC
AGCCAGAGTATGAGTGAGGAGGAACGCGAAAAGGTAACGCCACTCATGGTCAAAGGCTTTCGGGATGCGGCTGAG
GAAGGAGGGACGGCAGTGACCGGTGGGCAAACGGTGGTCAACCCTTGGATTATAATCGGTGGAGTTGCCACTGTA
GTATGCCAACCAAATGAGTTCATAATGCCGGACAGCGCCGTCGTTGGGGACGTGCTGGTGTTAACCAAACCGTTA
GGAACCCAGGTTGCTGTCAATGCCCACCAATGGCTGGATAATCCTGAAAGATGGAATAAAGTAAAGATGGTGGTC
TCCAGAGAAGAGGTGGAGCTGGCCTATCAGGAAGCCATGTTCAATATGGCTACCCTCAACAGAACTGCTGCAGGT
TTAATGCACACATTTAATGCCCATGCGGCCACAGATATCACAGGCTTTGGCATTCTAGGACACTCCCAGAACCTT
GCAAAACAACAAAGAAATGAAGTGTCCTTTGTTATTCATAATCTGCCAATAATTGCCAAGATGGCTGCCGTCAGC
AAGGCCAGTGGACGGTTTGGGCTTCTTCAAGGAACCTCAGCTGAAACCTCTGGGGGATTACTGATTTGTCTGCCA
AGAGAACAGGCGGCTCGCTTTTGTTCTGAAATCAAATCCTCCAAGTACGGAGAGGGTCACCAAGCGTGGATCGTT
GGCATTGTGGAAAAGGGAAACCGAACGGCCCGGATCATTGACAAGCCGCGAGTTATTGAAGTCCTGCCTCGTGGG
GCCACAGCTGCTGTTCTTGCTCCTGACAGTTCAAATGCCTCCTCTGAGCCTAGCTCG**TGA**GATGAAAGAACAGAA
GTTGTTTGGACCTTAGAGCCATTGTCCACAATCACGGATGGTTCTCAAGAGTTGATTGTAAGAAATTTCCAAAGA
AGGCTGCCTGCATAGTGGTTCCGGCTGCCCTTTCTAGGTGATTGGAATCAGCCCATCTAAAGCAGTCTTTATATG
CATTCCGAGGCCAGAGTAACATTTTGAACTTTGGGGGGATATTTGTTCATCACTTGGGTAGAAGAGGAGCAAAAA
TACTTCTGTTTTCTCTTGCCAAAGTAAGATGAAGCTATTCCAGGTTGAGGGATTTTTCTTTGCACGGGGTTGATT
AATTTCTGCACAGGGAGTGAGATTATTAAAGTAACACACACACAAAGTAAATTGCAAAATGAAAAAAATTAGAAG
CAAATGAGTTTTGGACCAATATTGTTGATAAATCTAAATTGTTAAGAGAGATCTTATAATGCAACATCAAATTCT
TTATTCAATTTTACTGAAGTACTGGCTCTTTCCTGCTCTGGACAAGAATTGAGCAACTTGTCTGATGACTGGGAA
AGGAGGACCTGCAACCATCTGACTTGGTCTCTGTTAATGACGTCTCTCCCTCTAAACCCCATTAAGGACTGGGAG
AGGCAGAGCAAGCCTCAGAGCCCAGGCCTCAGTGGTCATTAAGATGTTAAGTCTTTTGCGGCAGATTCCTGGTGA
TTTGATCAATAAAGAGTAATTTCTTGCTAAATAAATAAAGAAACCTTGTTGAAAAACTAAAAAAAAAAAAAAAAAA
AAA

4829/6881
# FIGURE 4452

GGSLGDGRLRRGDGSGGRLLGPGGLDSGPELLELPALRAPGVGPQPELAADGLLRHEGLRGCKVPQEALLKLLAG
LTRPDVRPPLGRGLVGGQEEASQEAGLPAGAGPSPTFPALGIGMDSCVIPLRHGGLSLVQTTDFFYPLVEDPYMM
GRIACANVLSDLYAMGITECDNMLMLLSVSQSMSEEEREKVTPLMVKGFRDAAEEGGTAVTGGQTVVNPWIIIGG
VATVVCQPNEFIMPDSAVVGDVLVLTKPLGTQVAVNAHQWLDNPERWNKVKMVVSREEVELAYQEAMFNMATLNR
TAAGLMHTFNAHAATDITGFGILGHSQNLAKQQRNEVSFVIHNLPIIAKMAAVSKASGRFGLLQGTSAETSGGLL
ICLPREQAARFCSEIKSSKYGEGHQAWIVGIVEKGNRTARIIDKPRVIEVLPRGATAAVLAPDSSNASSEPSS

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# FIGURE 4453A

CCTCTTTCACCCTGTCTAGGTTGCCAGCAAATCCCACGGGCCTCCTGACGCTGCCCCTGGGGCCACAGGTCCCTC
GAGTGCTGGAAGGATGAAGGATTCCTGCATCACTGTGATGGCCATGGCGCTGCTGTCTGGGTTCTTTTTCTTCGC
GCCGGCCTCGAGCTACAACCTGGACGTGCGGGGCGCGCGGAGCTTCTCCCCACCGCGCGCCGGGAGGCACTTTGG
ATACCGCGTCCTGCAGGTCGGAAACGGGGTCATCGTGGGAGCTCCAGGGGAGGGGAACAGCACAGGAAGCCTCTA
TCAGTGCCAGTCGGGCACAGGACACTGCCTGCCAGTCACCCTGAGAGGTTCCAACTATACCTCCAAGTACTTGGG
AATGACCTTGGCAACAGACCCCACAGATGGAAGCATTTTGGCCTGTGACCCTGGGCTGTCTCGAACGTGTGACCA
GAACACCTATCTGAGTGGCCTGTGTTACCTCTTCCGCCAGAATCTGCAGGGTCCCATGCTGCAGGGGCGCCCTGG
TTTTCAGGAATGTATCAAGGGCAACGTAGACCTGGTATTTCTGTTTGATGGTTCGATGAGCTTGCAGCCAGATGA
ATTTCAGAAAATTCTGGACTTCATGAAGGATGTGATGAAGAAACTCAGCAACACTTCGTACCAGTTTGCTGCTGT
TCAGTTTTCCACAAGCTACAAAACAGAATTTGATTTCTCAGATTATGTTAAATGGAAGGACCCTGATGCTCTGCT
GAAGCATGTAAAGCACATGTTGCTGTTGACCAATACCTTTGGTGCCATCAATTATGTCGCGACAGAGGTGTTCCG
GGAGGAGCTGGGGGCCCGGCCAGATGCCACCAAAGTGCTTATCATCATCACGGATGGGGAGGCCACTGACAGTGG
CAACATCGATGCGGCCAAAGACATCATCCGCTACATCATCGGGATTGGAAAGCATTTTCAGACCAAGGAGAGTCA
GGAGACCCTCCACAAATTTGCATCAAAACCCGCGAGCGAGTTTGTGAAAATTCTGGACACATTTGAGAAGCTGAA
AGATCTATTCACTGAGCTGCAGAAGAAGATCTATGTCATTGAGGGCACAAGCAAACAGGACCTGACTTCCTTCAA
CATGGAGCTGTCCTCCAGCGGCATCAGTGCTGACCTCAGCAGGGGCCATGCAGTCGTGGGGGCAGTAGGAGCCAA
GGACTGGGCTGGGGGCTTTCTTGACCTGAAGGCAGACCTGCAGGATGACACATTTATTGGGAATGAACCATTGAC
ACCAGAAGTGAGAGCAGGCTATTTGGGTTACACCGTGACCTGGCTGCCCTCCCGGCAAAAGACTTCGTTGCTGGC
CTCGGGAGCCCCTCGATACCAGCACATGGGCCGAGTGCTGCTGTTCCAAGAGCCACAGGGCGGAGGACACTGGAG
CCAGGTCCAGACAATCCATGGGACCCAGATTGGCTCTTATTTCGGTGGGGAGCTGTGTGGCGTCGACGTGGACCA
AGATGGGGAGACAGAGCTGCTGCTGATTGGTGCCCCACTGTTCTATGGGGAGCAGAGAGGAGGCCGGGTGTTTAT
CTACCAGAGAAGACAGTTGGGGTTTGAAGAAGTCTCAGAGCTGCAGGGGGACCCCGGCTACCCACTCGGGCGGTT
TGGAGAAGCCATCACTGCTCTGACAGACATCAACGGCGATGGGCTGGTAGACGTGGCTGTGGGGGCCCCTCTGGA
GGAGCAGGGGGCTGTGTACATCTTCAATGGGAGGCACGGGGGGGCTTAGTCCCCAGCCAAGTCAGCGGATAGAAGG
GACCCAAGTGCTCTCAGGAATTCAGTGGTTTGGACGCTCCATCCATGGGGTGAAGGACCTTGAAGGGGATGGCTT
GGCAGATGTGGCTGTGGGGGCTGAGAGCCAGATGATCGTGCTGAGCTCCCGGCCCGTGGTGGATATGGTCACCCT
GATGTCCTTCTCTCCAGCTGAGATCCCAGTGCATGAAGTGGAGTGCTCCTATTCAACCAGTAACAAGATGAAAGA
AGGAGTTAATATCACAATCTGTTTCCAGATCAAGTCTCTCATCCCCCAGTTCCAAGGCCGCCTGGTTGCCAATCT
CACTTACACTCTGCAGCTGGATGGCCACCGGACCAGAAGACGGGGGTTGTTCCCAGGAGGGAGACATGAACTCAG
AAGGAATATAGCTGTCACCACCAGCATGTCATGCACTGACTTCTCATTTCATTTCCCGGTATGTGTTCAAGACCT
CATCTCCCCCATCAATGTTTCCCTGAATTTCTCTCTTTGGGAGGAGGAAGGGACACCGAGGGACCAAAGGGCGCA
GGGCAAGGACATACCGCCCATCCTGAGACCCTCCCTGCACTCGGAAACCTGGGAGATCCCTTTTGAGAAGAACTG
TGGGGAGGACAAGAAGTGTGAGGCAAACTTGAGAGTGTCCTTCTCTCCTGCAAGATCCAGAGCCCTGCGTCTAAC
TGCTTTTGCCAGCCTCTCTGTGGAGCTGAGCCTGAGTAACTTGGAAGAAGATGCTTACTGGGTCCAGCTGGACCT
GCACTTCCCCCCGGGACTCTCCTTCCGCAAGGTGGAGATGCTGAAGCCCCATAGCCAGATACCTGTGAGCTGCGA
GGAGCTTCCTGAAGAGTCCAGGCTTCTGTCCAGGGCATTATCTTGCAATGTGAGCTCTCCCATCTTCAAAGCAGG
CCACTCGGTTGCTCTGCAGATGATGTTTAATACACTGGTAAACAGCTCCTGGGGGGGACTCGGTTGAATTGCACGC
CAATGTGACCTGTAACAATGAGGACTCAGACCTCCTGGAGGACAACTCAGCCACTACCATCATCCCCATCCTGTA
CCCCATCAACATCCTCATCCAGGACCAAGAAGACTCCACACTCTATGTCAGTTTCACCCCCAAAGGCCCCAAGAT
CCACCAAGTCAAGCACATGTACCAGGTGAGGATCCAGCCTTCCATCCACGACCACAACATACCCACCCTGGAGGC
TGTGGTTGGGGTGCCACAGCCTCCCAGCGAGGGGCCCATCACACACCAGTGGAGCGTGCAGATGGAGCCTCCCGT
GCCCTGCCACTATGAGGATCTGGAGAGGCTCCCGGATGCAGCTGAGCCTTGTCTCCCCGGAGCCCTGTTCCGCTG
CCCTGTTGTCTTCAGGCAGGAGATCCTCGTCCAAGTGATCGGGACTCTGGAGCTGGTGGGAGAGATCGAGGCCTC
TTCCATGTTCAGCCTCTGCAGCTCCCTCTCCATCTCCTTCAACAGCAGCAAGCATTTCCACCTCTATGGCAGCAA
CGCCTCCCTGGCCCAGGTTGTCATGAAGGTTGACGTGGTGTATGAGAAGCAGATGCTCTACCTCTACGTGCTGAG
CGGCATCGGGGGGCTGCTGCTGCTGCTGCTCATTTTCATAGTGCTGTACAAGGTTGGTTTCTTCAAACGGAACCT
GAAGGAGAAGATGGAGGCTGGCAGAGGTGTCCCGAATGGAATCCCTGCAGAAGACTCTGAGCAGCTGGCATCTGG
GCAAGAGGCTGGGGATCCCGGCTGCCTGAAGCCCCTCCATGAGAAGGACTCTGAGAGTGGTGGTGGCAAGGACTG

4831/6881
## FIGURE 4453B

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AGTCCAGGCCTGTGAGGTGCAGAGTGCCCAGAACTGGACTCAGGATGCCCAGGGCCACTCTGCCTCTGCCTGCAT
TCTGCCGTGTGCCCTCGGGCGAGTCACTGCCTCTCCCTGGCCCTCAGTTTCCCTATCTCGAACATGGAACTCATT
CCTGCCTGTCTCCTTTGCAGGCTCATAGGGAAGACCTGCTGAGGGACCAGCCAAGAGGGCTGCAAAAGTGAGGGC
TTGTCATTACCAGACGGTTCACCAGCCTCTCTTGGTTTCCTTCCTTGGAAGAGAATGTCTGATCTAAATGTGGAG
AAACTGTAGTCTCAGGACCTAGGGATGTTCTGGCCCTCACCCCTGCCCTGGGATGTCCACAGATGCCTCCACCCC
CCAGAACCTGTCCTTGCACACTCCCCTGCACTGGAGTCCAGTCTCTTCTGCTGGCAGAAAGCAAATGTGACCTGT
GTCACTACGTGACTGTGGCACACGCCTTGTTCTTGGCCAAAGACCAAATTCCTTGGCATGCCTTCCAGCACCCTG
CAAAATGAGACCCTCGTGGCCTTCCCCAGCCTCTTCTAGAGCCGTGATGCCTCCCTGTTGAAGCTCTGGTGACAC
CAGCCTTTCTCCCAGGCCAGGCTCCTTCCTGTCTTCCTGCATTCACCCAGACAGCTCCCTCTGCCTGAACCTTCC
ATCTCGCCACCCCTCCTTCCTTGACCAGCAGATCCCAGCTCACGTCACACTTGGTTGGGTCCTCACATCTTTCAC
ACTTCCACCAGCCTGCACTACTCCCTCAAAGCACACGTCATGTTTCTTCATCCGGCAGCCTGGATGTTTTTTCCC
TGTTTAATGATTGACGTACTTAGCAGCTATCTCTCAGTGAACTGTGAGGGTAAAGGCTATACTTGTCTTGTTCAC
CTTGGGATGATGCCTCATGATATGTCAGGGCGTGGGACATCTAGTAGGTGCTTGACATAATTTCACTGAATTAAT
GACAGAGCCAGTGGGAAGATACAGAAAAAGAGGGGCTGGGCTGGGCGCGGTGGTTCACGCCTGTAATCCCAGCAC
TTTGGGAGGCCAAGGAGGGTGGATCACCTGAGGTCAGGAGTTAGAGGCCAGCCTGGCGAAACCCCATCTCTACTA
AAAATACAAAATCCAGGCGTGGTGGCACACACCTGTAGTCCCAGCTACTCAGGAGGTTGAGGTAGGAGAATTGCT
TGAACCTGGGAGGTGGAGGTTGCAGTGAGCCAAGATTGCGCCATTGCACTCCAGCCTGGGCAACACAGCGAGACT
CCGTCTCAAGGAAAAAATAAAAATAAAAAGCGGGCACGGGCCCGTGACATCCCCACCCTTGGAGGCTGTCTTCTC
AGGCTCTGCCCTGCCCTAGCTCCACACCCTCTCCCAGGACCCATCACGCCTGTGCAGTGGCCCCCACAGAAAGAC
TGAGCTCAAGGTGGGAACCACGTCTGCTAACTTGGAGCCCCAGTGCCAAGCACAGTGCCTGCATGTATTTATCCA
ATAAATGTGAAATTCTGTCC
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4832/6881

# FIGURE 4454

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CGCGCTGGAGAGGCGCGGGGGTCAAGACGTCCGGCCTCGGGGGCCCGGGCTGGGCCGCCGAGTCCCCTGGGCGGCG
CTGAGCGGGCGGGAGGCGGGGGCCCGCGGCTCGGGGCAACCGAGGCCGGGTCGCGGGATCGGCCGCCATCGCCGC
CGCCGCTGCACTGGGAGCCCGCGGGGGATGGAGCGGGAGGCGTTGCCGTGGGGCCTCGAGCCCCAGGATGTGCAGA
GTTCTGACGAAATGAGGAGCCCCGAAGGGTACCTCAGAGGCAACATGAGTGAGAATGAGGAAGAGGAAATTTCTC
AGCAAGAAGGCAGTGGGGACTATGAAGTCGAAGAGATACCATTTGGGCTTGAACCCCAGAGCCCTGGGTTTGAGC
CACAAAGCCCAGAGTTTGAACCCCAAAGCCCCAGATTTGAGCCTGAAAGCCCGGGGTTTGAGTCCCGAAGCCCTG
GGCTTGTGCCCCCAAGCCCTGAGTTTGCACCCAGAAGCCCTGAATCAGATTCTCAGAGCCCTGAGTTTGAATCCC
AGAGCCCTAGGTATGAACCCCAAAGCCCTGGCTATGAACCTCGGAGCCCCGGGTATGAACCCCGGAGCCCTGGCT
ATGAATCTGAGAGCTCTAGATATGAATCCCAGAACACTGAGCTCAAAACCCAAAGCCCAGAATTTGAAGCTCAAA
GTTCCAAATTCCAGGAAGGTGCGGAGATGCTTCTGAACCCCGACGAAAAGAGTCCTTTGAATATCTCCGTAGGAG
TTCACCCCCTGGACTCCTTCACTCAGGGGTTTGGGGAGCAGCCCACAGGGGACCTGCCCATAGGGCCACCTTTTG
AGATGCCCACAGGGGCCCTGCTGTCTACACCGCAGTTTGAGATGCTTCAGAATCCCCTGGGTCTCACAGGAGCCC
TTCGAGGTCCAGGTCGGCGGGGTGGCCGGGCCAGGGGTGGGCAGGGCCCTCGGCCTAACATCTGCGGCATCTGCG
GGAAGAGCTTCGGGCGGGGCTCCACCCTGATCCAGCACCAGCGCATCCACACCGGTGAGAAGCCCTACAAATGTG
AGGTCTGCAGCAAGGCCTTCTCCCAGAGCTCTGACCTCATCAAACACCAGCGCACCCACACTGGCGAGCGGCCCT
ACAAATGTCCCCGTTGCGGCAAGGCCTTCGCCGACAGCTCTTACCTGCTTCGCCACCAGCGCACTCACTCTGGCC
AGAAGCCCTACAAGTGCCCACATTGTGGCAAGGCCTTCGGCGACAGCTCCTACCTCCTGCGACACCAGCGCACCC
ACAGCCACGAGCGGCCCTACAGCTGCACCGAGTGCGGCAAGTGCTATAGCCAGAACTCGTCCCTGCGCAGCCATC
AGAGGGTGCACACCGGTCAGAGGCCCTTCAGCTGTGGCATCTGCGGCAAGAGCTTCTCCCAGCGGTCGGCCCTTA
TCCCCCATGCCCGCAGCCACGCCCGGGAGAAGCCCTTCAAGTGCCCTGAGTGCGGCAAGCGCTTTGGCCAGAGCT
CGGTGCTGGCCATCCACGCCCGCACCCACCTGCCAGGCCGCACCTACAGCTGCCCCGACTGCGGCAAGACCTTCA
ATCGCTCCTCCACTCTCATCCAGCACCAGCGCTCCCACACGGGCGAGCGGCCCTACAGGTGCGCCGTGTGCGGCA
AGGGCTTCTGCCGCTCCTCCACGCTTCTGCAGCATCACCGGGTCCACAGTGGCGAGCGGCCTTACAAGTGCGATG
ACTGCGGAAAGGCCTTCTCCCAGAGCTCCGACCTCATCCGCCACCAGCGGACCCACGCGGCGGGCCGGCGCTGAC
CTGGGGCCCCAGCAGGGGTGGGAGGTGTGGGCAGAAGATAAGGGGCCAGGGAGCTAGAGGAACCTTTAGGGAGGA
TAGTGGAGAAGCCGCAGGAGAATGGAGGAGCTGAGGATGCTGGAAGAAGAGAACCAGGGTGGAGGAAGTGACATG
CCCTGGAGACTTGTGGGAAGTGGGTTGGAGGGGAGGCCAGGCCGGCAGCGGGAGGCCCTGGGAGAAATGGAGAGAG
GTCAGCGGAGGGCTGGCCTCAGCCGCGGCTCCTTGGTGGGTGCCTGGCTTGGCAACTGCTAGAGCAGGGAGGGGG
GAGGGCAGGGGATTACCTAATTAGAGTGGGGTTAGCTTAGATTGGTAGCTGCTGAAACTCTCGTTGAGTCAGGAGC
GGGTAAAAGGTAGGTGGGGTGGGGAGTGGGGCCCCGGGGTGGGGCCTGGGCCTCTGCGTGCAAACCCCAGCCTCC
CTCTTCTTCCTCAGGCTTTGGAGCCCCTGAGTTTGAGTTCAATAAAAACTTTATGTGGTAAAAAAAAAAAAAAAAA
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4833/6881
# FIGURE 4455

MRSPEGYLRGNMSENEEEEISQQEGSGDYEVEEIPFGLEPQSPGFEPQSPEFEPQSPRFEPESPGFESRSPGLVP
PSPEFAPRSPESDSQSPEFESQSPRYEPQSPGYEPRSPGYESESSRYESQNTELKTQSPEFEAQSSKF
QEGAEMLLNPDEKSPLNISVGVHPLDSFTQGFGEQPTGDLPIGPPFEMPTGALLSTPQFEMLQNPLGLTGALRGP
GRRGGRARGGQGPRPNICGICGKSFGRGSTLIQHQRIHTGEKPYKCEVCSKAFSQSSDLIKHQRTHTGERPYKCP
RCGKAFADSSYLLRHQRTHSGQKPYKCPHCGKAFGDSSYLLRHQRTHSHERPYSCTECGKCYSQNSSLRSHQRVH
TGQRPFSCGICGKSFSQRSALIPHARSHAREKPFKCPECGKRFGQSSVLAIHARTHLPGRTYSCPDCGKTFNRSS
TLIQHQRSHTGERPYRCAVCGKGFCRSSTLLQHHRVHSGERPYKCDDCGKAFSQSSDLIRHQRTHAAGRR

4834/6881
# FIGURE 4456

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GGCACGAGGCTTTCTCGGGCGCAGGAGGTTCCGCAGGCCCAGGCCAGGCCAGGGGAGGCAGCCGATCCGTCGTCG
GGGTTGACAGTTACCATGGCGCCGCCTCTGGCCCCGCTCCCTCCCCGGGACCCAAACGGGGCCGGACCCGAGTGG
AGGGAGCCGGGGGCTGTGAGCTTCGCGGACGTGGCCGTGTACTTCTGCCGGGAGGAGTGGGGCTGCTTGCGGCCA
GCGCAGAGGGCCCTGTACCGGGACGTGATGCGGGAGACCTACGGCCACCTGAGCGCTCTCGGAATCGGAGGCAAC
AAGCCAGCTCTCATCTCCTGGGTGGAGGAGGAGGCCGAACTGTGGGGTCCGGCTGCCCAGGATCCGGAGGTGGCG
AAATGTCAGACACAAACGGACCCAGCAGATTCCAGAAACAAGAAAAAGGAAAGACAAAGGGAAGGGACGGGAGCC
CTGGAGAAGCCCGACCCTGTGGCCGCCGGGTCTCCTGGGCTGAAGTCTCCCCAAGCCCCCTCGGCCGGGCCCCCT
TATGGTTGGGAGCAGCTGTCCAAGGCACCGCACCGGGACGCCCCTCCCTCTGTGCCCACCCCCCTGTCCCCCGA
GCTGACCAGCGTCATGGCTGCTACGTGTGCGGGAAGAGCTTTGCCTGGCGCTCCACACTGGTGGAGCACGTCTAC
AGTCACACTGGCGAGAAGCCCTTCCACTGCACTGACTGCGGCAAGGGCTTCGGCCACGCTTCCTCCCTGAGCAAA
CACCGGGCCATCCATCGTGGGGAGCGGCCCCACCGCTGTCTGGAGTGTGGCCGGGCCTTCACGCAGCGCTCGGCG
CTGACTTCGCACCTGCGCGTCCACACCGGCGAGAAACCCTATGGCTGCGCCGACTGTGGCCGCCGCTTCAGCCAG
AGCTCTGCCCTCTACCAGCACCGGCGCGTGCACAGCGGCGAGACCCCCTTCCCCTGCCCGGACTGTGGCCGCGCC
TTCGCCTACCCCTCGGACCTGCGGCGCCACGTGCGCACCCACACCGGCGAGAAGCCCTACCCGTGCCCGGACTGC
GGGCGCTGCTTCCGCCAGAGCTCGGAGATGGCAGTCCACAGGCGCACCCACAGCGGCGAGAAGCCCTACCCCTGC
CCGCAGTGCGGCCGCCGCTTTGGCCAGAAGTCAGCCGTGGCCAAACACCAGTGGGTTCATCGGCCCGGGGCCGGG
GGCCACAGGGGCCGGGTCGCCGGGCGTCTGTCTGTGACCCTGACCCCTGGCCACGGAGACCTGGACCCGCCCGTG
GGCTTCCAGCTGTACCCGGAGATATTCCAGGAGTGTGGGTGACGGCCTTAAAAGTGACTATCTAGACATTACGGG
AGGCCCGAGATGGGCTCAGGGGCCCGAACCTCTGCGGCGGCCTGCAGGGAGGTCCCAGAATCTAGGGCAAGAGCT
GGCCCTGGGGTGCGGACAGTCTGATCTTGGGCCCTTAGCAGCCTCCTCTGCCAGCACCTTGCTCCCCACTGCCCA
GGGCTCTCCAAGGCCCCCTCTACTGAGGCAGGGCTGAGTTGAGAACCCCCAGACCTACATAAGGGGAACCAAAAG
CTGTTTCTCAGCCCAGAGGTGCTAAGAGGACTGAGGTAGAGGAGAACCTTGTTTTACCCATTGTCTTTTTAAATT
TTTTATCATTATTTTTATTCTTGTGACCCTCCCAGAACACAATACTCATTGTCTTTTTATTTATTTATTTATTTA
TTTCTGAGACAGCTTCCTGCTCTGTCACCCAGGCTGGAGTGCAGTGGTGTGAACAGGGCTAACTGCAGCCTCAAC
CTGCAGTGCTCAAGGAATCCTCTCCCATCAGCCTTCCAAATATCTGAGACTACAGGCGGGCAACACTACGGCCAG
CTAATTTTTAAATTTTACATAGAGATGAGGTTCTCACTGTTGTCCAGGCTGGTCTCAAACTCCTTGGCTGAAGTG
ATCCTGTCGTCTCGGCTTCCGCAAGTGCTGGGATTACAGGCGTGAGCTACCACCATGCCTGGCTTCCATTGTCTT
TGTGTGTGTGTGTGTGTGATGGGGTTTTGCTCTTGTTGCCCAGGCTGGAGTGCAATAGCGCAATCTCAGCTCACT
GCAACCTCTGCCTCCAGAGTTCAAGCAATTCTCCTTCCTCAGCCTCCCAAGTAGCTGGGACTACAGGCACCCACC
ACCTCCATTGTCTTTTTACTGCCCAAGTTAAAATCCTGTGACTGTGTACTGGATCTGGCCTGCGGTTGTCATATT
TATTGATCTGAGTCCAGGCAGTGTTTTTAAGTGATATGAGTTAGTAGTGAAAATTGAAAGGATATTTTACAACC
AAATACAGGTTTTCTGGTGTCTTTTGAAAAATCCAAAGATTTGGCAACTCGACCTAGGCTCCGACAAAACCACAG
TTGTTGGGAGCTGAGCCGGAGCCAGAACTCACAATTCACCGTGGCCCGGCCACCCATCCCCACCACTCCCGTGGG
CTCCTGACCAAGCACCACGTGCCATTCATCATGGCTTGCTTTTAGTGTTTTTGGTGTTTATCTTAAAGTACAGCG
AAGAAGAAAGGGAAGTATTTCTTAGACCCATGTCTCTGTCCAAATAGGCCTTTCCATCTGGCATTTCCCGCTCAT
TTATATGACTTGCTGAGTTCCTATGGTCATTTGAGTTTGCAAACAGTGGTCTGTAGCACTCAGGTTTTCTGGAGT
TGGAGAGAAAGGGTGGCAAGAGAGAAGTAAAAGTTGGTTTTATTTTAAAAAAAAAAAAAAAAAAAAAAA
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4835/6881
# FIGURE 4457

MAPPLAPLPPRDPNGAGPEWREPGAVSFADVAVYFCREEWGCLRPAQRALYRDVMRETYGHLSALGIGGNKPALI
SWVEEEAELWGPAAQDPEVAKCQTQTDPADSRNKKKERQREGTGALEKPDPVAAGSPGLKSPQAPSAGPPYGWEQ
LSKAPHRGRPSLCAHPPVPRADQRHGCYVCGKSFAWRSTLVEHVYSHTGEKPFHCTDCGKGFGHASSLSKHRAIH
RGERPHRCLECGRAFTQRSALTSHLRVHTGEKPYGCADCGRRFSQSSALYQHRRVHSGETPFPCPDCGRAFAYPS
DLRRHVRTHTGEKPYPCPDCGRCFRQSSEMAVHRRTHSGEKPYPCPQCGRRFGQKSAVAKHQWVHRPGAGGHRGR
VAGRLSVTLTPGHGDLDPPVGFQLYPEIFQECG

## FIGURE 4458

CTGGGGATCTACGCTGAGTTCGGAGATGCTCCAGCTCGGGCCGCCCCTGTCTGAGCGGAGCTTTGCGGCGCTGAA
GCTTACAGGGGAAGGAAAAGCCTCGCCCGGCGTCTGATTGGCGGAACCGCGCTGCCGCAGCCTGGGATTCCCCAG
GGACCCCCCCGGAGCCGCCGCGTCTCCC**ATG**GACTTGCCCGGGGACTCCAGCCCGCCTGGCCAGCCGCGTCTGTG
CCGCCAGCCTCTGACTCGAGCATTATGGGGAGCCAGGAGCCCGAAACGGCCGAGGCTGCAGCTCCCGGGGGCCCC
TTCTCCCCTGGAAAAGGCCTCTCGGCGGGTCCTGGCCGTGGTGCTAGAAGATGTCATGGCTGTTCACATGGTCCC
CGTGGTGCCCTCAAAGCAGACCTCCATACCACAGCACCACAGCTACCATCAGGATCCTGTCCACAGGCAGCCGCC
TGCCTCGCCACCCCGGCAGGCCGGGTGGTCCTCGCAGGCCAGGCCTCCCGACCCTCTGTGTTTGTGTCGCGAGCC
CTTGAGCCGCATCCACCGGACCTCTTCCACCCTGAGGCGGCGATCAAGGACAACCCCTGGCCCAGAGGAGGGCCC
TTCACAAAAGGTGGACCGGGCCCCCCAGCCCACCCTGGTGGTGATGCTGGAAGACATCGCCAGTCCTAGACCCCC
CGCTGAGGGCTTCATTGATGAGACCCCCAACTTCATCATCCCAGCACAAAGAGCTGAGCCCATGAGGATAGTTCG
CCAGCCAACGCCTCCACCTGGGGACCTAGAACCCCCATTCCAGCCATCTGCTCTGCCTGCAGACCCTCTGGAGAG
CCCACCAACAGCCCCAGATCCTGCTCTGGAGCTCCCATCCACCCCACCACCGTCCAGCCTTTTACGCCCCCGCCT
CAGTCCCTGGGGCTTGGCCCCGCTCTTCCGTTCCGTCCGCTCCAGCTGGAGAGCTTTGCTGACATCTTCCTCAC
GCCCAACAAAACCCCACAGCCCCCACCCCCGTCCCCCCCAATGAAGCTGGAGTTGAAGATCGCCATCTCAGAGGC
CGAGCAGTCTGGGGCTGCTGAGGGCACTGCGTCTGTCAGCCCCCGGCCCCCAATCCGCCAGTGGCGAACTCAGGA
CCACAATACCCCAGCACTTCTCCCTAAGCCCTCTCTGGGCCGAAGCTACTCCTGCCCTGATCTGGGGCCCCCTGG
CCCAGGTACCTGCACCTGGCCACCTGCTCCACCCCAACCAAGCCGACCACGGCCGCGGCGGCACACTGTGGGTGG
TGGGGAAATGGCCCGAGCCCCGCCACCCCCTCGGCCCTGTCTCCGGAAAGAGGTCTTCCCTCTCGGAGGAGTGGG
AGCCTCCCCTTCTCTCACCACATCTTGCTCGTCCACGGCATCCACTTCCTTCTCCGAACCAGCAGAACCCAGGTT
GGGTTCAACCAAAGGGAAGGAGCCAAGAGCCTCAAAGGACCAGGTGCTTTCAGAACCTGAGACCAAGACCATGGG
AAAGGTTTCTCGATTCAGAATACGCAGAACACCAGCCCGTCCTCAGCTAAACCTTACACCAATGGGACTGCCTCG
ACCAATCAGGTTGAACAAGAAGGAGTTCAGCTTGGAAGAAATTTACACCAACAAGAATTACCAATCACCCACAAC
CAGGAGGACCTTTGAGACCATCTTTGAGGAACCCCGGGAGCGCAATGGGACTCTGATTTTCACCAGCTCAAGGAA
GCTCCGGCGGGCTGTGGAATTTCGGGACAGCAGCCTTCCTCGATCACGAAGACCGTCCCGTGGGGTCCGGGCTGC
AGGGGGCAGGACTGTTCCTCCCAATGTGGCCCCCAGCCCTGATGTGGGCCCCCTGCTCCAGCAGCGGCTGGAGGA
GCTAGATGCCTTGCTCCTGGAGGAAGAAACAGTAGATCGGGAGCAGCCCCACTGGACC**TAG**GTGCCCCATCTGTT
GGTCATCCATCCTGAAGGGACAGGAAACCTCCCAGGCAGTTATTTTTTTTTTCTCTATATTTCTAGTAAAGTTTT
CGATATGTTTCTGAAAAAAAAAAAAAAAAAAAAAAAAAA

# FIGURE 4459

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MDLPGDSSPPGQPRLCRQPLTRALWGARSPKRPRLQLPGAPSPLEKASRRVLAVVLEDVMAVHMVPVVPSKQTSI
PQHHSYHQDPVHRQPPASPPRQAGWSSQARPPDPLCLCREPLSRIHRTSSTLRRRSRTTPGPEEGPSQKVDRAPQ
PTLVVMLEDIASPRPPAEGFIDETPNFIIPAQRAEPMRIVRQPTPPPGDLEPPFQPSALPADPLESPPTAPDPAL
ELPSTPPPSSLLRPRLSPWGLAPLFRSVRSKLESFADIFLTPNKTPQPPPPSPPMKLELKIAISEAEQSGAAEGT
ASVSPRPPIRQWRTQDHNTPALLPKPSLGRSYSCPDLGPPGPGTCTWPPAPPQPSRPRPRRHTVGGGEMARAPPP
PRPCLRKEVFPLGGVGASPSLTTSCSSTASTSFSEPAEPRLGSTKGKEPRASKDQVLSEPETKTMGKVSRFRIRR
TPARPQLNLTPMGLPRPIRLNKKEFSLEEIYTNKNYQSPTTRRTFETIFEEPRERNGTLIFTSSRKLRRAVEFRD
SSLPRSRRPSRGVRAAGGRTVPPNVAPSPDVGPLLQQRLEELDALLLEEETVDREQPHWT
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4838/6881
# FIGURE 4460A

GCTAGGCTGACCCTCCTGCAGGTGACGGAAGTACCGCCTCCTCCCGTTTGACGCCCCTCAGGGGACCCTGCATCG
CTCCAGCCGCCGCGGCCATGTCTGGGCCAGGCAACAAACGCGCCGCCGGCGACGGGGGCTCAGGGCCCCCGGAAA
AGAAGCTGAGTCGTGAGGAGAAGACCACCACGACTCTTATCGAGCCCATTCGTCTTGGAGGCATCTCTTCCACGG
AGGAGATGGACCTGAAGGTACTACAGTTCAAGAACAAGAAACTGGCAGAGCGGCTGGAACAACGGCAGGCTTGTG
AAGATGAACTCCGAGAACGAATTGAGAAGTTGGAGAAGCGGCAGGCCACAGATGATGCCACACTCCTCATCGTCA
ATCGCTACTGGGCCCAGCTGGATGAAACTGTGGAAGCCCTTCTCCGATGCCATGAGAGCCAGGGGGAGCTGTCTT
CAGCGCCTGAGGCACCTGGGACCCAGGAGGGGCCAACATGTGATGGGACTCCTCTCCCAGAGCCGGGGACATCAG
AGCTGAGAGACCCCTTGCTGATGCAGCTGCGGCCCCCTCTCAGTGAGCCGGCCTTGGCTTTTGTGGTGGCACTGG
GTGCCAGCAGCAGTGAGGAGGTGGAGCTGGAGCTGCAAGGCCGAATGGAGTTCTCCAAGGCAGCTGTGTCTCGTG
TGGTAGAGGCCTCAGACCGCCTACAGCGCCGGGTGGAGGAACTCTGTCAGCGAGTGTACAGCCGAGGGGACAGTG
AGCCCCTCAGTGAGGCGGCTCAGGCACACACCCGAGAGCTGGGCCGTGAGAACCGGCGACTGCAGGACTTGGCCA
CTCAGCTGCAGGAGAAACACCACCGCATCTCATTGGAGTACTCCGAGCTCCAGGATAAAGTGACATCGGCAGAGA
CCAAGGTGCTGGAGATGGAGACAACAGTGGAGGACTTGCAGTGGGACATCGAGAAGCTGCGGAAGCGAGAGCAAA
AGCTCAATAAGCACCTGGCAGAGGCCTTAGAGCAGCTTAACTCTGGCTACTATGTATCTGGGAGCTCCTCAGGCT
TCCAGGGGGGCCAGATCACACTCAGCATGCAGAAGTTTGAGATGCTGAATGCAGAGTTAGAGGAAAACCAGGAAC
TGGCCAACAGCCGTATGGCAGAGCTGGAGAAACTGCAGGCCGAACTTCAGGGGGCTGTGCGGACCAATGAGCGCC
TCAAGGTGGCCCTGCGGAGCCTTCCTGAGGAGGTAGTGCGGGAGACGGGGGAGTACCGCATGCTGCAGGCCCAAT
TCTCACTGCTCTACAACGAGTCTCTGCAAGTGAAGACCCAGCTAGACGAGGCTCGGGGCCTGCTGCTGGCCACAA
AGAACTCCCACCTGCGACACATCGAGCACATGGAGAGCGACGAGCTGGGGCTGCAGAAGAAGCTACGCACAGAGG
TCATTCAGCTGGAGGACACGCTGGCCCAGGTACGCAAGGAGTATGAGATGCTGCGCATCGAGTTTGAGCAGAATC
TGGCGGCCAACGAGCAGGCGGGGCCCATCAACCGTGAGATGCGCCACCTGATTAGTAGTCTTCAAAACCACAACC
ACCAGCTAAAAGGGGACGCCCAGCGATACAAGCGGAAGCTTCGAGAAGTACAAGCTGAGATTGGCAAGCTCCGGG
CCCAGGCCAGTGGCTCTGCCCACTCCACCCCCAACCTGGGCCACCCAGAGGATTCTGGCGTCAGTGCCCCAGCCC
CAGGGAAAGAGGAGGGTGGGCCAGGCCCTGTCAGTACCCCCGACAACAGAAAGGAGATGGCTCCAGTGCCTGGCA
CCACCACTACTACCACTTCAGTGAAGAAGGAGGAGCTGGTCCCCTCTGAAGAGGACTTCCAGGGTATAACCCCTG
GGGCCCAGGGGCCCTTCCTCCCGGGGCCGAGAACCTGAGGCCAGGCCCAAGCGGGAGCTTCAGGAACGGGAAGGTC
CCAGCCTAGGACCTCCACCTGTAGCCTCCGCTCTCTCAAGGGCTGATCGGGAGAAGGCCAAGGTGGAAGAAACCA
AGCGGAAGGAATCAGAACTCCTCAAGGGTCTCCGAGCAGAGCTCAAGAAGGCCCAGGAGAGCCAGAAGGAGATGA
AACTGCTGCTGGATATGTACAAGTCAGCGCCCAAGGAGCAGCGGGATAAGGTGCAGCTCATGGCAGCGGAACGCA
AGGCTAAGGCCGAGGTTGATGAGCTGCGGAGCCGCATCCGGGAATTGGAGGAGAGGGATCGAAGGGAGAGCAAGA
AGATCGCGGATGAGGATGCCCTGCGGCGCATTCGGCAGGCAGAGGAGCAGATAGAACACCTGCAGCGCAAGCTGG
GTGCCACCAAGCAGGAGGAGGAGGCTCTGCTCTCAGAGATGGATGTGACAGGTCAGGCTTTTGAGGACATGCAGG
AACAGAACGGGCGGCTGCTACAGCAGTTGCGGGAAAAGGATGATGCCAACTTTAAGCTAATGTCAGAGCGGATCA
AGGCCAACCAGATTCACAAGCTGCTGCGGGAGGAGAAGGATGAGTTGGGCGAGCAGGTCCTTGGCCTCAAGTCCC
AGGTGGATGCCCAGCTGCTGACTGTGCAGAAGCTAGAGGAGAAGGAGCGAGCCTTGCAGGGCAGCCTCGGGGGTG
TGGAGAAGGAGCTGACGCTGCGCAGCCAAGCCCTGGAGCTCAACAAGCGGAAGGCTGTAGAAGCCGCCCAGCTGG
CCGAGGACCTGAAGGTGCAGCTGGAGCACGTGCAGACTCGGCTGCGGGAGATCCAGCCCTGCCTGGCAGAGAGCC
GGGCTGCTCGTGAGAAAGAGAGCTTCAACCTCAAGAGGGCTCAGGAGGACATCTCACGGCTGCGGCGCAAGCTGG
AAAAGCAGAGGAAGGTGGAGGTCTACGCAGATGCCGACGAAATCCTCCAGGAGGAGATCAAGGAGTACAAGGCGC
GGTTGACCTGCCCCTGCTGTAACACCCGCAAGAAGGATGCAGTCCTTACCAAGTGCTTCCACGTTTTCTGCTTCG
AGTGCGTGCGGGGCCGCTATGAGGCCCGCCAGAGGAAGTGCCCCAAGTGCAACGCGGCCTTTGGTGCCCACGACT
TCCATCGTATCTACATCAGCTGAACCTGAAACTCAGGGGACTCTGGAACACCATGGACCCTGGGGGCTGTGCCCC
CATCTCCTCCCCACCCCAGGTCTAGTGGCCCCACCCTCCATTCCGGACCCCATGGGCCCAGCCCCTGCCCATCTA
GTTGGTTTGGGGACCCTGGTGCATGCTAGTGGGCATGGGATCAGCCAAGCTTCGTTCCATCTTTTCCTAAAGGTC
AGAGCTGCAGCCTAGGGGCACTGCCCTACAGAAAAGGTCTGCCTGAGAGGCCTGAGGAGCCCAGAGCACTTGAC
TGAGCTTCCCGGAAACTGGCCCTAACCTGTCTGTCTCCGTGGATGCATCCTAACCCTAAGGAAAATTCCCCAGGC
TGTGATCTACCCTAGAGAAGGCTCGCTCCCTGCCTACTGGCTCACAAATGAGGACCAGTGAGCCATGTCCTTGTT
CCTTGTTTGAGACTGGGCTGCAGGCCCCAGGAAGACTTTCCTTCACCCACCATCCCCCTAACCTCGGCAGGGCTT

4839/6881
# FIGURE 4460B

```
CTGTCCTGTGGAGTTCCCTGGACACCTTGGTCTGGCTCTTGTGCCAAGGGCTGAAGGAGGTACCCTCTTGGCAGA
TGGGGGCATCACTTGCTTCCTTTGGGAAGCTCTAAGGTTGCTGCAGTCACCTTCCTCATCTTGCAGGTGCTGAAC
CAACATCATCAGTTTCTATTCTAATCAGGCCCCTTCCCAATCTCCATTTCTCTGCCAAGCCCATTTACCCCCACC
TCATGCATCCCAAGGCTCTACTGGGTCCCTGGACCTAACCCTGCTTTCATCCTGGTGGCCTTAACTACAGTGGAG
GTGGAACTTCCCAGGAGGGGAAGGGACAGACCAGCCCCAGCCGCTGGGCCAACTTCCAATCATTCCAGCTAGAAG
AGCTTCCCCCTGACACCCTGTGACTGAGCCTGTGTCCTGTCTGCCTGCCCAGCCATGCTCCATCGGCTGTGAGGG
CAGTGCCCGGAGAGGCCAGAGGGTTGGAGCTGCAGGGACCCGTTTGGACCCACAGCCTCTGTTCTAGAGATGCTT
GTATAGGCTGTTAATTGTGATGAATAAACGTTCAACCCTCGGCCTGCAGCCAGAGTAGCCAGGCCGCGCACCCC
```

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# FIGURE 4461

CATGGGGTCCTGTCCCAGCAATTCGTGGAGCTCATCAACAAGTGCAATTCAATGCAGTCCGAATACCGGGAGAAG
AACGTGGAGCGGATTCGGAGGCAGCTGAAGATCACCAATGCTGGGATGGTGTCTGATGAGGAGTTGGAGCAGATG
CTGGACAGTGGGCAAAGCGAGGTGTTTGTGTCCAATATCCTGAAGGACACGCAGGTGACTCGACAGGCCTTAAAT
GAGATCTCGGCCCGGCACAGTGAGATCCAGCAGCTTGAACGCAGTATTCGTGAGCTGCACGACATATTCACTTTT
CTGGCTACCGAAGTGGAGATGCAGGGGGAGATGATCAATCGGATTGAGAAGAACATCCTGAGCTCAGCGGACTAC
GTGGAACGTGGGCAGGAGCACGTCAAGACGGCCCTGGAGAACCAGAAGAAGGCGAGGAAGAAGAAAGTCTTGATT
GCCATCTGTGTGTCCATCACCGTCGTCCTCCTAGCAGTCATCATTGGCGTCACAGTGGTTGGATAATGTCGCACA
TTGTTGGCACTAGGAGCACCAGGAACCCAGGGCCTGGCCTTCTCTCCCAGCAGCCTGGGGGGCAGGGCAGAGCCT
CCAGTCGGACCCCTTCCTCACACTGGCCCCTATGCAGAAGGGCAGACAGTTCTTCTGGGGTTGGCAGCTGCTCAT
TCATGATGGCCTCCTCCTTCAGGCCTCAATGCCTGGGGGAGGCCTGCACTGTCCTGATTGGCCGGGACACACGGT
TTTGTAAAAAATTAAAAAACAAAAAAAGAGCATAGAAA

## FIGURE 4462

GGTTTTCTCCGCGGGCGCCTCGGGCGGAACCTGGAGATAATGGGCAGCACCTGGGGGAGCCCTGGCTGGGTGCGG
CTCGCTCTTTGCCTGACGGGCTTAGTGCTCTCGCTCTACGCGCTGCACGTGAAGGCGGCGCGCGCCCGGGACCGG
GATTACCGCGCGCTCTGCGACGTGGGCACCGCCATCAGCTGTTCGCGCGTCTTCTCCTCCAGGTGGGGCAGGGGT
TTCGGGCTGGTGGAGCATGTGCTGGGACAGGACAGCATCCTCAATCAATCCAACAGCATATTCGGTTGCATCTTC
TACACACTACAGCTATTGTTAGGTTGCCTGCGGACACGCTGGGCCTCTGTCCTGATGCTGCTGAGCTCCCTGGTG
TCTCTCGCTGGTTCTGTCTACCTGGCCTGGATCCTGTTCTTCGTGCTCTATGATTTCTGCATTGTTTGTATCACC
ACCTATGCTATCAACGTGAGCCTGATGTGGCTCAGTTTCCGGAAGGTCCAAGAACCCCAGGGCAAGGCTAAGAGG
CACTGAGCCCTCAACCCAAGCCAGGCTGACCTCATCTGCTTTGCTTTGGCATGTGAGCCTTGCCTAAGGGGGCAT
ATCTGGGTCCCTAGAAGGCCCTAGATGTGGGGCTTCTAGATTACCCCCTCCTCCTGCCATACCCGCACATGACAA
TGGACCAAATGTGCCACACGCTCGCTCTTTTTTACACCCAGTGCCTCTGACTCTGTCCCCATGGGCTGGTCTCCA
AAGCTCTTTCCATTGCCCAGGGAGGGAAGGTTCTGAGCAATAAAGTTTCTTAGATCAATC

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# FIGURE 4463

GGGCGCAGGCGGCTGGGCGCCTGGCGAGTGGACTGTTCGAGCCCTTCCGCTGGGACCCGGGCCCTGGCTCCGGCC
CCGCGATGGGAGCTGCTCTCCGCGGGCTGAGCCTGTCAGCATCCTCGACGCACCCTGGTCCCTGAAGTCGGAGAA
GAGCCCCTACCCACCCACACCCCCTTGCCCCATTTTGGGTCGCCTGGGTCCTCAGTCCTAGCGGATCCTCAGTCC
TAGCGGCCACCGGGTCTGAAAGGAGCAAGACG**ATG**ATCCTGGCGTCGGTGCTGAGGAGCGGTCCCGGGGGCGGGC
TTCCGCTCCGGCCCCTCCTGGGACCCGCACTCGCGCTCCGGGCCCGCTCGACGTCGGCCACCGACACACCACG
TGGAGATGGCTCGGGAGCGCTCCAAGACCGTCACCTCCTTTTACAACCAGTCGGCCATCGACGCGGCAGCGGAGA
AGCCCTCAGTCCGCCTAACGCCCACCATGATGCTCTACGCTGGCCGCTCTCAGGACGGCAGCCACCTTCTGAAAA
GTGCTCGGTACCTGCAGCAAGAACTTCCAGTGAGGATTGCTCACCGCATCAAGGGCTTCCGCTGCCTTCCTTTCA
TCATTGGCTGCAACCCCACCATACTGCACGTGCATGAGCTATATATCCGTGCCTTCCAGAAGCTGACAGACTTCC
CTCCGATCAAGGACCAGGCGGACGAGGCCCAGTACTGCCAGCTGGTGCGACAGCTGCTGGATGACCACAAGGATG
TGGTGACCCTCTTGGCAGAGGGCCTACGTGAGAGCCGGAAGCACATAGAGGATGAAAAGCTCGTCCGCTACTTCT
TGGACAAGACGCTGACTTCGAGGCTTGGAATCCGCATGTTGGCCACGCATCACCTGGCGCTGCATGAGGACAAGC
CTGACTTTGTCGGCATCATCTGTACTCGTCTCTCACCAAAGAAGATTATTGAGAAGTGGGTGGACTTTGCCAGAC
GCCTGTGTGAGCACAAGTATGGCAATGCGCCCCGTGTCCGCATCAATGGCCATGTGGCTGCCCGGTTCCCCTTCA
TCCCTATGCCACTGGACTACATCCTGCCGGAGCTGCTCAAGAATGCCATGAGAGCCACAATGGAGAGTCACCTAG
ACACTCCCTACAATGTCCCAGATGTGGTCATCACCATCGCCAACAATGATGTCGATCTGATCATCAGGATCTCAG
ACCGTGGTGGAGGAATCGCTCACAAAGATCTGGACCGGGTCATGGACTACCACTTCACTACTGCTGAGGCCAGCA
CACAGGACCCCCGGATCAGCCCCCTCTTTGGCCATCTGGACATGCATAGTGGCGCCCAGTCAGGACCCATGCACG
GCTTTGGCTTCGGGTTGCCCACGTCACGGGCCTACGCGGAGTACCTCGGTGGGTCTCTGCAGCTGCAGTCCCTGC
AGGGCATTGGCACGGACGTCTACCTGCGGCTCCGCCACATCGATGGCCGGGAGGAAAGCTTCCGGATC**TGA**CCCC
ACAGCCTTTGGCCTGCTCACCCGACCAGCCTGGGCCGCATTCCCTGCAGGACCTCCCGGGTCAGGCAGGGCGGCC
CCCTGCTCCACACACTGCTGCATCTTGGGTCTCAGGGACCCAGACAGATGGACTTACATGGAGCTGGGCACTGCC
CTGCCTCAACAGGGTCCATTGCCTCCTCGCCTCCAGAACTTGGAGCAGGGAAGTGGGCACCCTGAGGCCTCCAGC
ACCAGTTCCGTCATTCTCGTTCCTGGGGAACCCCCACTCTGACCTGTTATTAAAGTTCACATTTTGAATGCCCTC
TCGGGCCCCGTGTGTGGGGAGGGCAGGTG

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# FIGURE 4464

MILASVLRSGPGGGLPLRPLLGPALALRARSTSATDTHHVEMARERSKTVTSFYNQSAIDAAAEKPSVRLTPTMM
LYAGRSQDGSHLLKSARYLQQELPVRIAHRIKGFRCLPFIIGCNPTILHVHELYIRAFQKLTDFPPIKDQADEAQ
YCQLVRQLLDDHKDVVTLLAEGLRESRKHIEDEKLVRYFLDKTLTSRLGIRMLATHHLALHEDKPDFVGIICTRL
SPKKIIEKWVDFARRLCEHKYGNAPRVRINGHVAARFPFIPMPLDYILPELLKNAMRATMESHLDTPYNVPDVVI
TIANNDVDLIIRISDRGGGIAHKDLDRVMDYHFTTAEASTQDPRISPLFGHLDMHSGAQSGPMHGFGFGLPTSRA
YAEYLGGSLQLQSLQGIGTDVYLRLRHIDGREESFRI

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# FIGURE 4465

ATGCTCAGTCCTCCAGGCGTCGGTGCTCAGCGGTGTTGGAACTTCGTTGCTTGCTTGCCTGTGCGCGCGTGCGCG
GAC**ATG**GCCTCAAACGATTATACCCAACAAGCAACCCAAAGCTATGGGGCCTACCCCACCCAGCCCGGGCAGGGC
TATTCCCAGCAGAGCAGTCAGCCCTACGGACAGCAGAGTTACAGTGGTTATAGCCAGTCCACGGACACTTCAGGC
TATGGCCAGAGCAGCTATTCTTCTTATGGCCAGAGCCAGAACACAGGCTATGGAACTCAGTCAACTCCCCAGGGA
TATGGCTCGACTGGCGGCTATGGCAGTAGCCAGAGCTCCCAATCGTCTTACGGGCAGCAGTCCTCCTACCCTGGC
TATGGCCAGCAGCCAGCTCCCAGCAGCACCTCGGGAAGTTACGGTAGCAGTTCTCAGAGCAGCAGCTATGGGCAG
CCCCAGAGTGGGAGCTACAGCCAGCAGCCTAGCTATGGTGGACAGCAGCAAAGCTATGGACAGCAGCAAAGCTAT
AATCCCCCTCAGGGCTATGGACAGCAGAACCAGTACAACAGCAGCAGTGGTGGTGGAGGTGGAGGTGGAGGTGGA
GGTAACTATGGCCAAGATCAATCCTCCATGAGTAGTGGTGGTGGCAGTGGTGGCGGTTATGGCAATCAAGACCAG
AGTGGTGGAGGTGGCAGCGGTGGCTATGGACAGCAGGACCGTGGAGGCCGCGGCAGGGGTGGCAGTGGTGGCGGC
GGCGGCGGCGGCGGTGGTGGTTACAACCGCAGCAGTGGTGGCTATGAACCCAGAGGTCGTGGAGGTGGCCGTGGA
GGCAGAGGTGGCATGGGCGGAAGTGACCGTGGTGGCTTCAATAAATTTGGTGGCCCTCGGGACCAAGGATCACGT
CATGACTCCGAACAGGATAATTCAGACAACAACACCATCTTTGTGCAAGGCCTGGGTGAGAATGTTACAATTGAG
TCTGTGGCTGATTACTTCAAGCAGATTGGTATTATTAAGACAAACAAGAAAACGGGACAGCCCATGATTAATTTG
TACACAGACAGGGAAACTGGCAAGCTGAAGGGAGAGGCAACGGTCTCTTTTGATGACCCACCTTCAGCTAAAGCA
GCTATTGACTGGTTTGATGGTAAAGAATTCTCCGGAAATCCTATCAAGGTCTCATTTGCTACTCGCCGGGCAGAC
TTTAATCGGGGTGGTGGCAATGGTCGTGGAGGCCGAGGGCGAGGAGGACCCATGGGCCGTGGAGGCTATGGAGGT
GGTGGCAGTGGTGGTGGTGGCCGAGGAGGATTTCCCAGTGGAGGTGGTGGCGGTGGAGGACAGCAGCGAGCTGGT
GACTGGAAGTGTCCTAATCCCACCTGTGAGAATATGAACTTCTCTTGGAGGAATGAATGCAACCAGTGTAAGGCC
CCTAAACCAGATGGCCCAGGAGGGGGACCAGGTGGCTCTCACATGGGGGGTAACTACGGGGATGATCGTCGTGGT
GGCAGAGGAGGCTATGATCGAGGCGGCTACCGGGGCCGCGGCGGGGACCGTGGAGGCTTCCGAGGGGGCCGGGGT
GGTGGGGACAGAGGTGGCTTTGGCCCTGGCAAGATGGATTCCAGGGGTGAGCACAGACAGGATCGCAGGGAGAGG
CCGTAT**TAA**TTAGCCTGGCTCCCCAGGTTCTGGAACAGCTTTTTGTCCTGTACCCAGTGTTACCCTCGTTATTTT
GTAACCTTCCAATTCCTGATCACCCAAGGGTTTTTTTTGTGTCGGACTATGTAATTGTAACTATACCTCTGGTTC
CCATTAAAAGTGACCATTTTAGTT

# FIGURE 4466

MASNDYTQQATQSYGAYPTQPGQGYSQQSSQPYGQQSYSGYSQSTDTSGYGQSSYSSYGQSQNTGYGTQSTPQGY
GSTGGYGSSQSSQSSYGQQSSYPGYGQQPAPSSTSGSYGSSSQSSSYGQPQSGSYSQQPSYGGQQQSYGQQQSYN
PPQGYGQQNQYNSSSGGGGGGGGGGNYGQDQSSMSSGGGSGGGYGNQDQSGGGGSGGYGQQDRGGRGRGGSGGGG
GGGGGGYNRSSGGYEPRGRGGGRGGRGGMGGSDRGGFNKFGGPRDQGSRHDSEQDNSDNNTIFVQGLGENVTIES
VADYFKQIGIIKTNKKTGQPMINLYTDRETGKLKGEATVSFDDPPSAKAAIDWFDGKEFSGNPIKVSFATRRADF
NRGGGNGRGGRGRGGPMGRGGYGGGGSGGGGRGGFPSGGGGGGGQQRAGDWKCPNPTCENMNFSWRNECNQCKAP
KPDGPGGGPGGSHMGGNYGDDRRGGRGGYDRGGYRGRGGDRGGFRGGRGGGDRGGFGPGKMDSRGEHRQDRRERP
Y

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# FIGURE 4467

ATGCCAAGGTCAGGGGCTCCCAAAGAGCGCCCTGCGGAGCCTCTCACCCCTCCCCCATCCTATGGCCACCAGCCA
CAGACAGGGTCTGGGGAGTCTTCAGGAGCCTCGGGGGACAAGGACCACCTGTACAGCACGGTATGCAAGCCTCGG
TCCCCAAAGCCTGCAGCCCCGGCGGCCCCTCCATTCTCCTCTTCCAGCGGTGTCTTGGGTACCGGGCTCTGTGAG
CTAGATCGGTTGCTTCAGGAACTTAATGCCACTCAGTTCAACATCACAGATGAAATCATGTCTCAGTTCCCATCT
AGCAAGGTGGCTTCAGGAGAGCAGAAGGAGGACCAGTCTGAAGATAAGAAAAGACCCAGCCTCCCTTCCAGCCCG
TCTCCTGGCCTCCCAAAGGCTTCTGCCACCTCAGCCACTCTGGAGCTGGATAGACTGATGGCCTCACTCTCTGAC
TTCCGCGTTCAAAACCATCTTCCAGCCTCTGGGCCAACTCAGCCACCGGTGGTGAGCTCCACAAATGAGGGCTCC
CCATCCCCACCAGAGCCGACTGGCAAGGGCAGCCTAGACACCATGCTGGGGCTGCTGCAGTCCGACCTCAGCCGC
CGGGGTGTTCCCACCCAGGCCAAAGGCCTCTGTGGCTCCTGCAATAAACCTATTGCTGGGCAAGTGGTGACGGCT
CTGGGCCGCGCCTGGCACCCCGAGCACTTCGTTTGCGGAGGCTGTTCCACCGCCCTGGGAGGCAGCAGCTTCTTC
GAGAAGGATGGAGCCCCCTTCTGCCCCGAGTGCTACTTTGAGCGCTTCTCGCCAAGATGTGGCTTCTGCAACCAG
CCCATCCGACACAAGATGGTGACCGCCTTGGGCACTCACTGGCACCCAGAGCATTTCTGCTGCGTCAGTTGCGGG
GAGCCCTTCGGAGATGAGGGTTTCCACGAGCGCGAGGGCCGCCCCTACTGCCGCCGGGACTTCCTGCAGCTGTTC
GCCCCGCGCTGCCAGGGCTGCCAGGGCCCCATCCTGGATAACTACATCTCGGCGCTCAGCGCGCTCTGGCACCCG
GACTGTTTCGTCTGCAGGGAATGCTTCGCGCCCTTCTCGGGAGGCAGCTTTTTCGAGCACGAGGGCCGCCCGTTG
TGCGAGAACCACTTCCACGCACGACGCGGCTCGCTGTGCGCCACGTGTGGCCTCCCTGTGACCGGCCGCTGCGTG
TCGGCCCTGGGTCGCCGCTTCCACCCGGACCACTTCACATGCACCTTCTGCCTGCGCCCGCTCACCAAGGGGTCC
TTCCAGGAGCGCGCCGGCAAGCCCTACTGCCAGCCCTGCTTCCTGAAGCTCTTCGGCTGA

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## FIGURE 4468

CAAAAGCTCGGCATGGCTGACGACGCGGGTTTGGAGACCCCGCTGTGTTCCGAGCAGTTCGGCTCCGGGGAGGCA
CGGGGCTGCCGCGCCGCCGCGGACGGGAGCCTGCAGTGGGAGGTCGGGGGCTGGCGCTGGTGGGGGCTCTCCAGG
GCCTTCACGGTCAAACCTGAAGGACGAGATGCGGGCGAAGTGGGGGCTTCCGGGGCCCCCTCACCGCCCCTCTCC
GGGCTCCAGGCCGTGTTCCTGCCTCAGGGCTTCCCTGATAGCGTCAGCCCGGACTACTTGCCCTACCAGCTGTGG
GATTCCGTGCAGGCGTTTGCTTCCAGCCTCTCCGGCTCCCTAGCCACCCAGGCAGTCTTGCTGGGCATAGGGGTG
GGGAACGCAAAAGCCACTGTTTCAGCTGCCACGGCCACCTGGCTCGTGAAAGATTCAACTGGCATGCTGGGCCGC
ATCGTCTTTGCCTGGTGGAAAGGGAGCAAACTGGACTGCAATGCCAAGCAGTGGAGGCTTTTTGCGGACATCCTC
AATGACGTAGCCATGTTCCTTGAGATTATGGCTCCTGTATACCCAATCTGTTTCACCATGACCGTCTCCACCAGC
AACCTAGCCAAGTGCATCGTGAGTGTTGCTGGTGGGGCCACTCGGGCTGCCCTGACCGTGCACCAGGCTCGGAGG
AACAACATGGCTGACGTGTCAGCCAAGGACAGCAGCCAGGAGACGCTGGTGAACCTGGCGGGGCTCTTGGTCAGC
CTCCTGATGCTCCCTCTGGTGTCAGGTTGCCCTGGCTTCAGCCTTGGATGTTTCTTCTTCCTCACTGCCCTCCAC
ATCTACGCCAACTACCGCGCGGTCCGAGCCCTGGTCATGGAGACCTTGAACGAAGGCCGGCTCCGGCTGGTCCTG
AAGCACTACCTTCAGAGGGGAGAGGTACTCGACCCAACTGCAGCCAATCGCATGGAGCCGCTGTGGACAGGTTTC
TGGCCAGCTCCGTCTCTATCCCTGGGGGTCCCCTTACACCGCTTGGTCTCCAGTGTCTTTGAGCTGCAGCAGCTG
GTTGAGGGGCACCAAGAATCCTACCTCCTCTGCTGGGACCAGTCACAAAACCAGGTACAGGTAGTTCTGAACCAG
AAGGCAGGCCCCAAGACCATCCTAAGGGCCGCCACACATGGGCTGATGCTTGGGGCCCTGCAGGGAGATGGACCC
CTTCCAGCAGAGCTGGAGGAGCTGAGGAACCGGGTGCGGGCAGGTCCTAAGAAAGAGAGCTGGGTCGTCGTCAAG
GAGACACACGAAGTGTTGGACATGCTGTTCCCAAAGTTCTTGAAAGGACTGCAGGATGCCGGCTGGAAGACCGAG
AAGCACCAGCTAGAGGTGGGTGAGTGGAGGGCCACATGGCTTCTGTCTCCCGAAAAGAAGGTCTTGTGAGCAGCC
CAGACGGAGGCCCAAGCCCAGGGCAGGAACCTGGAGCAAGGACACTTTGGCCACAGCAGGACAGGGGAAAGGCAG
CTTTATTTTTCCTTAGGGCAACTGCAGCGGGTGGGCCAGGCCCTCATGGGAAGTGACTGCCAATCAGATGCAGTG
GGCCCCAGGCAGAGGAAGGCCGGGAGAAGGGGAGCCAGGACCTTCTCACCCCACTGCCCCTTCCCCTTTTCTGGG
GAGCACCGCAGGCTCCTCACCCCCACTTCCTGTGAGGCTGTGGCTTATGGTGTCCAACGCAGTTGGTCTTAGGCA
TAGAAGCCCCAGAGGAACACGGCCACTGCCATCATGAGCAGGGCATTGAGGTTGACCACACGGGCCCAGCTCGGG
TCCTCGCTGATGTCCTCCAGCCGCCTGGCTGCTGCCGCTGCCTCCTCCTGGGTAAGGGGCGGAGGACTGCCCACC
CCACCTCTGCTCATTCCACAAAACCAGAGCAGGCACTGGCGGAAGAGGCTTGGTGCCGGGGCCTGGGGCTCTGAG
GGAAATTGAGGCCCTGCAGTTAGTTTGCGGGAACTCAGCTCCTCCAGCCCCACCTCCCAGCATGGTGCCCTACCA
TTCATCTCCATGGCACTCTCTGGGCACCCATTCTGTACAGGGAGTGAGGAGCCTTGCTGCTCATCAGCATCCAGG
TCCTCCCGTTCCTCCTTGCTATGCCGGAGACTGAAGACCAGGCGGTGGAGCTGGGGAGGGTGGGAGCACGAACGA
GGTGGGAGTTCTGTCCCCCCATGCCTGGCCCTAAAGTCTCTTGCACACCAGCTCGTCACTGCCTGCCCTACCCAC
CTCTGTCCAGTCTACACACCCAGCCCAGGCTTAACTCATGCCAACTCCACCCTACATGGCTGCCCTGTGCCCTCG
GGATAAACCCCAAGCCCCTGAGCTTGTGTTTAAAGCCGTTGGCCTTGCTCCCCCAGCTTTGTCAGCTCAGGTCTG
TCTACACCCAGATGGTAGCGCTTGTGACACTGGCCTGGCAGTCCTGCTCACAGTGTTCTGTGCCTGTGTGCTCCC
ACCCTTTCCTCCTGCTGCTGCAGAAACCCGGCCATCCTTCCACACCCAGATCTCTTGTCCTGTCCTCACCCCACC
CTGCCACCATCAGCCCTGCCTGGAGCCACCTGCCCTTTGGCAACAAAACCAAACCTTTTTGTGGGCGTTCAAGAT
GGTATTGTGCCCACCAGTCAGATCCTGTGTTTTGAGTCCCAAAGGCCATGCCAAGGATTGGCTTTGGGAGGCTTT
AATCACCAACCCATCAACATCAAGCCTCCCCCAGGCCGGTTCAAATAAATGTATTTAAAT

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# FIGURE 4469

MADDAGLETPLCSEQFGSGEARGCRAAADGSLQWEVGGWRWWGLSRAFTVKPEGRDAGEVGASGAPSPPLSGLQA
VFLPQGFPDSVSPDYLPYQLWDSVQAFASSLSGSLATQAVLLGIGVGNAKATVSAATATWLVKDSTGMLGRIVFA
WWKGSKLDCNAKQWRLFADILNDVAMFLEIMAPVYPICFTMTVSTSNLAKCIVSVAGGATRAALTVHQARRNNMA
DVSAKDSSQETLVNLAGLLVSLLMLPLVSGCPGFSLGCFFFLTALHIYANYRAVRALVMETLNEGRLRLVLKHYL
QRGEVLDPTAANRMEPLWTGFWPAPSLSLGVPLHRLVSSVFELQQLVEGHQESYLLCWDQSQNQVQVVLNQKAGP
KTILRAATHGLMLGALQGDGPLPAELEELRNRVRAGPKKESWVVVKETHEVLDMLFPKFLKGLQDAGWKTEKHQL
EVGEWRATWLLSPEKKVL

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# FIGURE 4470

GCTTCCCTGCTTGATCTGTGTACCCTGCTCTTTCTCCTTCATTCCGCAGCCTCCTTTGCCCTGTGACCTGCAGGT
ACTGGACGGTCCCTAGAGAGGATACCGGGACGCTCCTGAAGCCGCGAGATGATTTCAAGCAGATGCAGCCTGACC
ATTAGGGCCAAGGCCAAATTGCAAAAAAAAAAAGAAGTTTGCCTTTATTCTACTCCATCCACATCTAAACTTTGG
AGGTCAAGGCTGTGGACAGATCAGAAGACATAGTTCCCTCCTTCTGGGGCTCCACATCCTTCATTCACTGATCTC
TGGGAAGGAGGATGGGTGGCAGGATGGGTCTTCCATGATACTGAAGGGAGAGCCACATGTTGATGCCCAGGACCA
GCTGCCTCCTTGGTCTGAAAGGCCTGATCGAGGCCAGGATTGGCTATGAGAGCTGGGAAATGGGACCATCTTTGA
AGCCATGGGAGAGGGTGAGAGCCACCATCACTC**ATG**TTCTTGAATGGGAACTGCCTGGAGACCCTGAAGAAGAAG
GAGCCTGAAGGAGGAAGGAGGAGGCTGAGCCATCCCGGGAACATGGGCTGGATGAGGCCAAGCCAGGAGACGACA
CCACCAGATAGAAGTCACCATTCAGGATTTGGACTTTTCTGTGGAGATCCTGGCCCCGAGATCGAACCCTTCTCC
CTGTGGGTGTTCCCGCAGGAGATGGTGCTGGAGATCCACCAGCTGTTCATGGACCATGAATACCCATGTCACCAC
ATCACTTCTCACTGCACCTGGGTGGCAGCACACTGGACCACGTCTCAGAGCTGCGCAGCATGGCAGGGCTGCAGG
CGGGCTTGCTGCTCCACGTGGTGGAAGAGCCCTGCACAATGCACAAGGCCCACGGTGATGAGTGCCACATTTGAG
ACTGCTCAGGAGCCTGGACCCAGC**TGA**TGCAGCTCCTTGTCCTTCCTGAGCGTCTTCACTGACAGTGGCCTGAGA
GACGGCAGGAGCAGAAAGACTTGGAGATGGACCCCACCGACTGCACACCACCCAAGTACATCCTGCTAGGGACCC
TGGAACAGCCACTGTGTCCCCTGCAACCCCAGAACGGTGACTAAAAGCCCCTGAAAGTGCTCACCGTGAGCGGCT
GGTACCTGTCCCCTGGGAACTGCAAGATGCACAGGACCTTGTGTACCTGTTTGTGATCACAGCCGAGGACCAGCG
AGGTAGCATTACCACATCCACACAGGGCTTTTACCATAACCGCCCCAGTACTGGAACGAGGAGCTGCAGATGATG
AGGGACCTACCCAACAAGAACCAACCTGAGCAGCTGCTTCAAGAAAAAGCCATGTTCAAGGTGCCTGAATCCCCT
GGTAAGTGAGTGACAGCCTCACAGCCTCAGGCCCACCTGGCTCCTGCTGGAAGGTTTTCTTGTGCTCGGGAGAGA
AGTGAGGGAAGCCGGCAGTCCCAGCCCTGTCAGGTGCCCTGAAGGCCCGTCAGGTTTGCCCTGCAAGGCCTTCTA
GCATTCTGCTTCCTGGGAGACCATCCCCCACCTTTCTCCGGCCTCTGAGACTTTGAGTCCTTGGGAGGAGAAGGC
CCTCCTTGCTATCTGGGCTGAGTGGCCAGGGCCATCCAGCTTCCCACCCTCCACTGACTGCCATGGGGCCCTCCC
CTGAGCACATGGTGCCCAACTGTAGCCCTTCTAGGGCAGGGGCTCATTGGCAGCACTTGCAGCTTGCTGGCACTT
AAAAGTCATTAGTGCGGTTACTGAGAGAAATGAGGAAAAAATAATTGTTAAAAAAAAAAAAAAAAAAAA

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## FIGURE 4471

MFLNGNCLETLKKKEPEGGRRRLSHPGNMGWMRPSQETTPPDRSHHSGFGLFCGDPGPEIEPFSLWVFPQEMVLE
IHQLFMDHEYPCHHITSHCTWVAAHWTTSQSCAAWQGCRRACCSTWWKSPAQCTRPTVMSATFETAQEPGPS

# FIGURE 4472

AAGAAGAGGCGAGAAAGACCCCCCGACAGACCAAAGCCCGTGTGCCGCTGCATCCTGCATCCAGCACCTACCTCC
CGCCACTGTCGCCACTGCCACC<u>ATG</u>CCCAAGAGAAAGGCTGAAGGGGATGCTAAGGGAGATAAAGCCAAGGTGAA
GGATGAACCACAGAGAAGATCCGCAAGGTTGTCTGCTAAACCTCCTCCTCCAAAGCCAGACAGCCCAAGCCTAGA
AAGGCCCCTGCAAAGAAGGGAGAGAAGGTACCCAAAGGGAAAAAGGGAAAAGCTGATGCCCAGGAGGAGGGATTC
CCTGACTTTGACACACATGGCCACCTTGGCACAAAAGCCTTGTGGTATAGAAAAACAAATTTGTTTTTATGTCCT
CTTCTCCCTTTCCATCTTTCAGCATAGACTTAACTCCCTTAAGCCCAGACATCTGTTGGGACCTGACCCC<u>TAG</u>TC
ATTGGTTACCAGTGTGTCAGGCAATCTGGACTTTCCAGTGATGCCACTGAGATGGCACCTGTCAAAAGAGTAGTG
GTTCCATTTCTAGATTGTAGATCTTCAGATAAATTCTGCCATTTTCATTTCACTTCCTGAAAGTCAGGGTCGGCT
TCTAAAAATTTGTTAAACAATATGCTAAATGTGAAATGTCACCCCTCACTCTAAACTTTCCCCGTTCAGAGCATC
AGATGAAGACTTCATTGGGTTTTATAGTGGCTTTCTGATTTTTGGTAGTCCATTGAAGAAGGGAGTTTGAAAGTT
GTTGTATACTGTTAACGATTATCTGCCCATGTCCTGCCT

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## FIGURE 4473

MPKRKAEGDAKGDKAKVKDEPQRRSARLSAKPPPPKPDSPSLERPLQRRERRYPKGKREKLMLRRRDSLTLTHMA
TLAQKPCGIEKQICFYVLFSLSIFQHRLNSLKPRHLLGPDP

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# FIGURE 4474

CCGCTCTGTCTGCTTCGCCACCTTCTCCCCGAGCACTGCCCGGCCGGCCGCC**ATG**GCTAACGTGGCTGACACGAA
GCTGTACGACATCCTGGGCGTCCCGCCCGGCGCCAGCGAGAACGAGCTGAAGAAGGCATACAGAAAGTTAGCCAA
GGAATATCATCCTGATAAGAATCCAAATGCAGGAGACAAATTTAAAGAAATAAGTTTTGCATATGAAGTACTATC
AAATCCTGAGAAGCGTGAGTTATATGACAGATACGGAGAGCAAGGTCTTCGGGAAGGCAGCGGCGGAGGTGGTGG
CATGGATGATATTTTCTCTCACATTTTTGGTGGGGGATTGTTCGGCTTCATGGGCAATCAGAGTAGAAGTCGAAA
TGGCAGAAGAAGAGGAGAGGACATGATGCATCCACTCAAAGTATCTTTAGAAGATCTGTATAATGGCAAGACAAC
CAAACTACAACTTAGCAAGAATGTGCTCTGTAGTGCATGCAGTGGCCAAGGCGGAAAGTCTGGAGCTGTCCAAAA
GTGTAGTGCTTGTCGAGGTCGAGGTGTGCGCATCATGATCAGACAGCTGGCTCCAGGGATGGTACAACAGATGCA
GTCTGTGTGCTCTGATTGTAATGGAGAAGGAGAGGTAATTAATGAAAAAGACCGCTGTAAAAAATGTGAAGGGAA
GAAGGTGATTAAAGAAGTCAAGATTCTTGAAGTCCACGTAGACAAAGGCATGAAACATGGACAGAGAATTACATT
CACTGGGGAAGCAGACCAGGCCCCAGGAGTGGAACCCGGAGACATTGTTCTTTTGCTACAGGAGAAAGAACATGA
GGTATTTCAGAGAGATGGGAATGATTTGCACATGACATATAAAATAGGACTTGTTGAAGCTCTATGTGGATTTCA
GTTCACATTTAAGCACCTTGATGGACGTCAGATTGTGGTGAAATACCCCCCTGGCAAAGTAATTGAACCAGGGTG
TGTTCGTGTAGTTCGAGGTGAAGGGATGCCGCAGTATCGTAATCCCTTTGAAAAAGGTGATCTTTACATAAAGTT
TGATGTGCAGTTTCCTGAAAACAACTGGATCAACCCAGACAAGCTTTCTGAACTAGAAGATCTTCTGCCATCTAG
ACCGGAAGTTCCTAACATAATTGGAGAAACAGAGGAGGTAGAGCTTCAGGAATTTGATAGCACTCGAGGCTCAGG
AGGTGGTCAGAGGCGTGAAGCCTATAATGATAGCTCTGATGAAGAAAGCAGCAGCCATCATGGACCTGGAGTGCA
GTGTGCCCATCAG**TAA**ACTCTGCAAACAAATTGCACAGGTGGATTTTCTTTCCACATTTGCCTGATTGTTCTCA
GCAATCCAGCTGGAGTGTCTTATCAATCCAGATGAACTGAGGGACATCTGTTGGTCTATGTATAACTTTTAAAAT
TGGTATAGTATCTACAGAGTGTATAATTTAAACTAACCACAAAGCTTTACATCTTCATTTTGACTGTTCCATAGC
AGAATAAAGCACTTGAAAGGAAACAAGACTCCCTTTCACACATGGATTATTATAAGTTTCAATCCTGGTATCTGT
GCTTGATTTTTATCAGTTTTGTGTAGATTTTTATGTTTCATATTTTAAATTTAAATCCCACATTGTAAAGTTTGT
ACAATTTGTCCTGAAGCTTTGTGTTTGGCTGCACCTGCATAAGCTGCTACAAATAGAATAAAGAATTTCATAGCC
TGTATCTATCATTTAGATGCATGGAAAAAAATGGGCTTTGCACACAATGGGTTTGGAGCTGACTGGGAACAATGG
AAAAAATTACATTAGCTGTGGTTGTAAAGTTTTTTTGTTTTTGGTTTGTTTTTTTTTCTTTTTTCTTTTTTTT
TTTTTTTACCATCTTGTGAAAGGTTTCTGAAACTCGATAATAAAAAGCGGTTGGTGTAAATT

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# FIGURE 4475

MANVADTKLYDILGVPPGASENELKKAYRKLAKEYHPDKNPNAGDKFKEISFAYEVLSNPEKRELYDRYGEQGLR
EGSGGGGGMDDIFSHIFGGGLFGFMGNQSRSRNGRRRGEDMMHPLKVSLEDLYNGKTTKLQLSKNVLCSACSGQG
GKSGAVQKCSACRGRGVRIMIRQLAPGMVQQMQSVCSDCNGEGEVINEKDRCKKCEGKKVIKEVKILEVHVDKGM
KHGQRITFTGEADQAPGVEPGDIVLLLQEKEHEVFQRDGNDLHMTYKIGLVEALCGFQFTFKHLDGRQIVVKYPP
GKVIEPGCVRVVRGEGMPQYRNPFEKGDLYIKFDVQFPENNWINPDKLSELEDLLPSRPEVPNIIGETEEVELQE
FDSTRGSGGGQRREAYNDSSDEESSSHHGPGVQCAHQ

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# FIGURE 4476

GGCACGAGCGCGGCGTTCACGGGAATTGTTCGCTTTAGTGCCGGCGCC**ATG**GGGTCGGAGCTGATCGGGCGCCTA
GCCCCGCGCCTGGGCCTCGCCGAGCCCGACATGCTGAGGAAAGCAGAGGAGTACTTGCGCCTGTCCCGGGTGAAG
TGTGTCGGCCTCTCCGCACGCACCACGGAGACCAGCAGTGCAGTCATGTGCCTGGACCTTGCAGCTTCCTGGATG
AAGTGCCCCTTGGACAGGGCTTATTTAATTAAACTTTCTGGTTTGAACAAGGAGACATATCAGAGCTGTCTTAAA
TCTTTTGAGTGTTTACTGGGCCTGAATTCAAATATTGGAATAAGAGACCTAGCTGTACAGTTTAGCTGTATAGAA
GCAGTGAACATGGCTTCAAAGATACTAAAAAGCTATGAGTCCAGTCTTCCCCAGACACAGCAAGTGGATCTTGAC
TTATCCAGGCCACTTTTCACTTCTGCTGCACTGCTTTCAGCATGCAAGATTCTAAAGCTGAAAGTGGATAAAAAC
AAAATGGTAGCCACATCCGGTGTAAAAAAAGCTATATTTGATCGACTGTGTAAACAACTAGAGAAGATTGGACAG
CAGGTCGACAGAGAACCTGGAGATGTAGCTACTCCACCACGGAAGAGAAAGAAGATAGTGGTTGAAGCCCCAGCA
AAGGAAATGGAGAAGGTAGAGGAGATGCCACATAAACCACAGAAAGATGAAGATCTGACACAGGATTATGAAGAA
TGGAAAAGAAAAATTTTGGAAAATGCTGCCAGTGCTCAAAAGGCTACAGCAGAG**TGA**TTTCAGCTTCCAAACTGG
TATACATTCCAAACTGATAGTACATTGCCATCTCCAGGAAGACTTGACGGCTTTGGGATTTTGTTTAAACTTTTA
TAATAAGGATCCTAAGACTGTTGCCTTTAAATAGCAAAGCAGCCTACCTGGAGGCTAAGTCTGGGCAGTGGGCTG
GCCCCTGGTGTGAGCATTAGACCAGCCACAGTGCCTGATTGGTATAGCCTTATGTGCTTTCCTACAAAATGGAAT
TGGAGGCCGGGCGCAGTGGCTCACGCCTGTAATCCCAGCACTTTGGGAGGCCAAGGTGGGTGGATCACCTGAGGT
CAGGAGCTCGAGACCAGCCTGGCCAACATGGTGAAACCCCATCTCTACTAAAAATACAAAAATTAGCCAGGTGTG
ATGGTGCATGCCTGTAATCCCAGCTCCTCAGTAGGCTGAGACAGGAGCATCACTTGAACGTGGGAGGCAGAGGTT
GCAGTGAGCCGAGATTGCACCACCGCACTCCAGCCTGGGTGACAGAGCGAGACTTATCTCATAAATAAATAGATA
GATACTCCAGCCTGGGTGACAGAGCGAGACTTATAGATAGATAGATAGATAGATGGATAGATAGATAGATAGATA
GATAGATAGATAAACGGAATTGGAGCCATTTGCTTTAAGTGAATGGCAGTCCCTTGTCTTATTCAGAATATAAA
ATTCAGTCTGAATGGCATCTTACAGATTTTACTTCAATTTTTGTGTACGGTATTTTTTATTTGACTAAATCAATA
TATTGTACAGCCTAAGTTAATAAATGTTATTTATATATGCAAAAAAAAAAAAAAAAAAAAA

4856/6881
# FIGURE 4477

MGSELIGRLAPRLGLAEPDMLRKAEEYLRLSRVKCVGLSARTTETSSAVMCLDLAASWMKCPLDRAYLIKLSGLN
KETYQSCLKSFECLLGLNSNIGIRDLAVQFSCIEAVNMASKILKSYESSLPQTQQVDLDLSRPLFTSAALLSACK
ILKLKVDKNKMVATSGVKKAIFDRLCKQLEKIGQQVDREPGDVATPPRKRKKIVVEAPAKEMEKVEEMPHKPQKD
EDLTQDYEEWKRKILENAASAQKATAE

# FIGURE 4478

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TATTTTGTCAGATGTGTTGAACCTCGATTAAGATTGCATTATGACATTCTTGAAGACCGAGTTCCATCAGGACTT
ATTGTTGACTACCACAATCTGTTGTCTCAATGTGAGGAGAGTTACAGGAAATTTTTAAATCTGAGAAGCAGTTTG
TCAAATTGTAACTCTGATTCCGAGCAGGAAAATATCTCCATGGTGGAAGGGTTAAAATTGTATTCGGAGATGGAA
CAGTTGAAACAAAAGCTGAAACTCATTGAGAATCCTTTGTTGAGGTATGTGTTTGGTTATCAGAAGAATTCTAAC
ATCCAAGCAAAGGGTGTCCGTTCCAGCGGTCAGAAGATCACTCATGTGGTCTCCTCCACCATGATGGCTGGTCTC
CTGCGGTCCCTGCTTACGGACAGGCTTTGCCAGGAGCCTGGTGAGGAAGAAAGAGAAATTCAGTTCCATAGTGAT
'CCATTGTCTGCTATAAATGCCTGCTTCGAAGGTGACACTGTTATTGTTTGTCCTGGCCATTATGTGGTACATGGC
ACTTTCTCCATTGCTGACTCCATTGAGTTGGAAGGATATGGCCTACCAGATGACATTGTGATAGAAAAGAGGGGC
AAAGGCGACACTTTTGTGGACTGCACTGGTGCTGATATTAAAATCTCAGGCATAAAATTTGTTCAGCATGATGCT
GTAGAGGGAATCTTAATTGTTCACCGTGGTAAGACTACGCTGGAAAACTGTGTGCTGCAGTGTGAGACGACCGGA
GTCACAGTGCGGACATCAGCAGAGTTTCTAATGAAGAACTCGGATTTATATGGCGCCAAGGGTGCTGGTATAGAA
ATCTACCCTGGGGAGTCAGTGCACCCTGAGTGACAATGGGATCCATCACTGCAAGGAAGGGATCCTCATTAAGGAC
TTCTTAGATGAACATTATGACATTCCCAAGATATCCATGGTGAATAATATAATACATAATAATGAAGGTTATGGT
GTTGTCTTGGTGAAACCTACAATCTTCTCTGACCTGCAAGAAAATGCTGAAGATGGAACTGAAGAAAATAAAGCG
CTTAAAATTCAGACAAGTGGAGAGCCAGATGTGGCTGAAAGAGTGGATCTAGAAGAGCTGATTGAGTGTGCAACT
GGTAAAATGGAGCTTTGTGCAAGAACTGACCCTTCTGAGCAAGTCGAGGGAAATTGTGAAATTGTAAATGAACTA
ATTGCTGCCTCCACACAGAAAGGCCAGATAAAGAAGAAAAGGTTGAGTGAACTGGGGATCACGCAAGCTGATGAC
AACTTAATGTCACAGGAGATGTTTGTTGGGATTGTGGGGAACCAGTTCAAGTGGAATGGGAAAGGTAGTTTTGGC
ACATTTCTTTTCTGACTACAGTGATGTAAGTAGATAGCAAAATACTGGATTTTGCACATGCTGCCCTAAGAATCA
CTGCTGCCATTGTAGTTTGCTGTATTGTCTGTATTTTATATTTGATTATTTGGGCTTGAGTGAAAGGTAGATTTA
TTTCCATTTGCAGGTGTTGCACATAAAACACTCCCTCTTTATAAGAAAAATCATAAÀTGCATATAAAATAGAAAA
TATTTGGAGATTGCTTATCTGAAAGTCTTGCTTTCTTATACACATGGTTCTCTCATATTAAGCCTGGTAGTAACT
TTTTAGTGTAATTACCTTTAGCACTTCAAAGACGAGGAAGTAAGGAAGGGAATGCAAGACTAGTGCATAAAAATG
CAATAGGTGTCATATGTACAGCATTCTTCTTAGAGTTGCCTTTTCATCCCAATTACAGTGAGTCTGATTTCCATC
CTGTATTTGCATAATACTTGTCTTAAAATAAAAGCTTTTATGATTGGGAATTTATCTGCCTAATCAGACTTATTA
TTGAGACGTCAATGGGACGCATTTTTCTGTTGAGCTATGCAGTCGTCAAAACAGCGATAGCACAGCATAGGAGGTT
TGAAGCAGAAATGAAATGTGTTATTCAGAGCCAATGTTGTACATAGAGCATTTTCACTATTGCTGAATGGGAATG
ATTAAAAACAAGGTATTTTTCGGGCCAGGCGGTGGCTCACGCTTGTAATCGCAGCACTTTGGGAGGCTGAGGCAG
GAGGATCACTTGAGCCCAGGAGTTCAAGACTAGCCTAGGCAACATAGTGAGACCCTGTCTCTACTAAAAATAAAT
TTAAAAAAAATTAGCTGAGTGTGGTGGTGCATGCATGTAGTTCCAGCTACTCAGGAGGCTGAGGCTAGAGGATCC
TTGAGCCAGGAGGTTGAGGCTGCAGTGAGGTGTGATTGCGCCACTGCATTCCAGCTTGGGCGACAGAGCGAGAC
CCAGTCTCAAAAAAAAAAAAAAAGTATTTTTCTCTTACCGTTACAGTATTCTGATTATATTACTGACACAGTCAAA
ATGATTAACTGTACAACCTGTATCTGCTGGGTGTTCTTGTTATCATATTGTAAAACAGCTTTAAAAATATTTATA
TTTTAAAAACTGTATGTGACATTAATATGCCTAATGATTAAAATTATAGTGATGAAATAACAAAA
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4858/6881
## FIGURE 4479

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GCTGCAACACCGAGCGGAGGAGGCAGGAACCGGAGCGCGAGCAGTAGCTGGGTGGGCACCACGGCTGGGATCACC
ACCATTGAGGCGGTGAAGCGCAAGATCCAGGTTCTGCAGCAGCAGGCAGATGATGCAGAGGAGCGAGCTGAGCGC
CTCCAGCAAGAAGTTGAGGGAGAAAGGCGGGCCCAGGAGCGCCTGGCCACTGCCCTGCAAAAGCTGGAAGAAGCA
GAAAAAGCTGCTGGTGAGAGTGAGAGAGGTATGAAGGTTATTGAAAACCGGGCTTTAAAAGATGAAGAAAAGATG
GAACTCCAAGAACTCCAACTCAAAGAAGCTAAGCACATTGCAGAAGAGGCAGATAGGAAGTATGAAGAGGTGGCT
CGTAAGTTGGTGACCATTGAAGGAGACTTGGAACGCACAGAGGAACGAGCTGAGCTGACAGAGTCCCGTTGCCGA
GAGATGGATGAGCAGATTAGACTGATGGACCAGAACCTGAAGTGTCTGAGTGCTGCTGAAGAAAAGTACTCTCAA
AAAGAAGACAAATATGAGGAAGAAATCAAGATTTTTACTGATAAACCCAAGGAGGCAGAGACCTGTGCTGAGTTT
GCTGAGCGATCGGTAGCCAAGCTGGAAAAGACAATTGATGACTTGGAAGATAAACTGAAATGCACCAAAGAGGAG
CACCTCTGTACACAAAGGATGCTGGACCAGACTCTGCTTGACCTGAATGAGATGTAGAATGCCCCAGTCCCACCC
TGCTGCTGCTCCTCCCTGTGACCCAGACTCCGCCTGAGGCCAGCCTGCCAGAAGCTGACCTTTAACTGAGGGCTG
ATCTTTAACTGGAAGGCTGCTTTCTCCTTTCACCGCCCCCTCCTTCCCTGTGTCTTTTTCGCCAAACTGTCTCTG
CCTTTTCCCGGAGAATCCAGCTGGGCTAGAGGCTGAGCACCTTTGGAAACAACATTTAAGGGAATGTGAGCACAA
TGCATAATGTCTTTAAAAAGCGTGTTGTGATGTACACATTTTGTAATTACCTTTTTTGTTGTTTTGTAGCAAACA
TTTGTAAAACATTCCAAATAATTCCACAGCCCTGAAGCAGCAATCAAATCCCTTCTCACTTTTGGAAGGTGACT
TTTCACCTTAATGCATATTCCCCTCTCCATAGAGGAGAGGAAAAGGTATAGGCTTGCCTTGCTGAGAGCCAAACA
GAGCCCAGGGAGACTCCACTGTGGGAAACCTCATTGCTCTGTACAAAGTACTAGCTAAACCAGAAAGGTGATTCC
AGGAGGAGTTAGCCCAACAACAACAAAAACAAAAATGTGCTGTTCAAGTTTTCAGCTTTAAGATATCTTTGGATA
ATATTATTTCTATTTTTTATTTTTTTCATTAGAAATGATCAAATTAAGATGGTTAAGACCTCTGAGACCAAAACT
TTCTCTCATCTCTACCCCCTCCCAACTGCTCACAGAACGGATCATGTCCCCCTTATGTTGAGGTGACCACTTAAT
TGCTTTCCTGCCTCCTTGAAAGAAAGAAGATTGTGTTTTCTCCACTGATTTAGCCATGTGAAACTCATCTCATTA
CCCTTTTCTGGGTTTCAAGCTGCTGTCTCTAGAAGTGCCATCTCATTGTGCTTCGTATCAGTCAGTGCTGGAGAA
ATCTTGAATAGCTTATGTACAAAACTTTTTAAATTTTATATTATTTTAAAACTTTGCTTCTTTGGGTTTGTGGCA
CCCTGGCCACCCCATGTGGCTGTGACAGCCTCTGCAGTCCGTGGGCTGGCAGTTTGCTGATCTGTTAAAATTTCT
TTCCCTACCCAGTCCCCATTTTCTGGTAAGGTTTCTAGGAGGTCTGTTAGGTGTACATCCTGCAGCTTATTGGCT
TAAAATGTACTCTCCTTTTATGTCGTCTCTTTGGGGCTGATTGGGAGAAAGAGAAATCAATAGTGCAACTGTTTT
GATACTGAATATTGACAAGTGTCTTTTTGAAATAAAGAACCAGTCCCTCC
```

# FIGURE 4480

GGAGGAGGCAGGAACCGGAGCGCGAGCAGTAGCTGGGTGGGCACCACGGCTGGGATCACCACCATTGAGGCGGTG
AAGCGCAAGATCCAGGTTCTGCAGCAGCAGGCAG**ATG**ATGCAGAGGAGCGAGCTGAGCGCCTCCAGCAAGAAGTT
GAGGGAGAAAGGCGGGCCCGGAAACAGAGGTATGAAGGTTATTGAAAACCGGGCTTTAAAAGATGAAGAAAAGAT
GGAACTCCAAGAACTCCAACTCAAAGAAGCTAAGCACATTGCAGAAGAGGCAGATAGGAAGTATGAAGAGGTGGC
TCGTAAGTTGGTGACCATTGAAGGAGACTTGGAACGCACAGAGGAACGAGCTGAGCTGACAGAGTCCCGTTGCCG
AGAGATGGATGAGCAGATTAGACTGATGGACCAGAACCTGAAGTGTCTGAGTGCTGCTGAAGAAAAGTACTCTCA
AAAAGAAGACAAATATGAGGAAGAAATCAAGATTTTTACTGATAAACCCAAGGAGGCAGAGACCTGTGCTGAGTT
TGCTGAGCGATCGGTAGCCAAGCTGGAAAAGACAATTGATGACTTGGAAGATAAACTGAAATGCACCAAAGAGGA
GCACCTCTGTACACAAAGGATGCTGGACCAGACTCTGCTTGACCTGAATGAGATG**TAG**AATGCCCCAGTCCCACC
CTGCTGCTGCTCCTCCCTTTTCCCGGAGAATCCAGCTGGGCTAGAGGCTGAGCACCTTTGGAAACAACATTTAAG
GGAATGTGAGCACAATGCATAATGTCTTTAAAAAGCGTGTTGTGATG

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## FIGURE 4481

MMQRSELSASSKKLREKGGPGNRGMKVIENRALKDEEKMELQELQLKEAKHIAEEADRKYEEVARKLVTIEGDLE
RTEERAELTESRCREMDEQIRLMDQNLKCLSAAEEKYSQKEDKYEEEIKIFTDKPKEAETCAEFAERSVAKLEKT
IDDLEDKLKCTKEEHLCTQRMLDQTLLDLNEM

## FIGURE 4482

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GGAGGCTGCAACACCGAGCGGAGGAGGCAGGAACCGGAGCGCGAGCAGTAGCTGGGTGGGCACCACGGCTGGGAT
CACCACCATTGAGGCGGTGAAGCGCAAGATCCAGGTTCTGCAGCAGCAGGCAGATGATGCAGAGGAGCGAGCTGA
GCGCCTCCAGCAAGAAGTTGAGGGAGAAAGGCGGGCCCGGAAACAGGCTGAGGCTGAGGTGGCCTCCTTGAACCG
TAGGATCCAGCTGGTTGAAGAAGAGCTGGATCGTCCTCAGGAGCGCCTGGCCACTGCCCTGCAAAAGCTGGAAGA
AGCAGAAAAAGCTGCTGGTGAGAGTGAGAGAGGTATGAAGGTTATTGAAAACCGGGCTTTAAAAGATGAAGAAAA
GATGGAACTCCAAGAACTCCAACTCAAAGAAGCTAAGCACATTGCAGAAGAGGCAGATAGGAAGTATGAAGAGGT
GGCTCGTAAGTTGGTGACCATTGAAGGAGACTTGGAACGCACAGAGGAACGAGCTGAGCTGACAGAGTCTACTCT
CAAAAAGAAGACAAATATGAGGAAGAAATCAAGATTTTTACTGATAAACCCAAGGAGGCAGAGACCTGTGCTGAG
TTTGCTGAGCGATCGGTAGCCAAGCTGGAAAAGACA
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4862/6881
## FIGURE 4483

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ATGTCTAAGTCAGAGTCTCCTAAAGAGCCCGAACAGCTGAGGAAGCTCTTCATTGGAGGGTTGAGCTTTGAAACA
ACTGATGAGAGCCTGAGGAGCCATTTTGAGCAATGGGGAACGCTCACGGACTGTGTGGTAATGAGAGATCCAAAC
ACGAAGCGCTCCAGGGGCTTTGGGTTTGTCACATATGCCACTGTGGAGGAGGTGGATGCAGCTATGAATGCAAGG
CCACACAAGGTGGATGGAAGAGTTGTGGAACCAAAGAGAGCTGTCTCCAGAGAAGATTCTCAAAGACCAGATGCC
CACTTAACTGTGAAAAAGATATTTGTTGGTGGCATTAAAGAAGACACTGAAGAACATCACCTAAGAGATTATTTT
GAACAGTATGGAAAAATTGAAGTGATTGAAATCATGACTGACAGAGGCAGTGGCAAGAAAAGGGGCTTTGCCTTT
GTAACCTTTGACGACCATGACTCCGTGGATAAGATTGTCATTCAGAAATACCATACTGTGAATGGCCACAACTGT
GAAGTTAGAAAAGCCCTGTCAAAGCAAGAGATGGCTAGTGCTTCATCCAGCCAAAGAGGGAGAATGCAAGGACCT
GAGCTTCTCTTCCTCAAGCCCCTCACAGCGACTGGGCCTTTACAACTCAATGTTCGAAGCTCTGGTACTGTTTAA
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4863/6881
# FIGURE 4484

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TGTTTCCGCTGCATCCAGACTTCCTCAGGCGGTGGCTGGAGGCTGCGCATCTGGGGCTTTAAACATACAAAGGGA
TTGCCAGGACCTGCGGCGGCGGCGGCGGCGGCGGGGGCTGGGGCGCGGGGGCCGGACCATGAGCCGCTGAGCCGG
GCAAACCCCAGGCCACCGAGCCAGCGGACCCTCGGAGCGCAGCCCTGCGCCGCGGAGCAGGCTCCAACCAGGCGG
CGAGGCGGCCACACGCACCGAGCCAGCGACCCCCGGGCGACGCGCGGGGCCAGGGAGCGCTACGATGGAGGCGCT
AATGGCCCGGGGCGCGCTCACGGGTCCCCTGAGGGCGCTCTGTCTCCTGGGCTGCCTGCTGAGCCACGCCGCCGC
CGCGCCGTCGCCCATCATCAAGTTCCCCGGCGATGTCGCCCCCAAAACGGACAAAGAGTTGGCAGTGCAATACCT
GAACACCTTCTATGGCTGCCCCAAGGAGAGCTGCAACCTGTTTGTGCTGAAGGACACACTAAAGAAGATGCAGAA
GTTCTTTGGACTGCCCCAGACAGGTGATCTTGACCAGAATACCATCGAGACCATGCGGAAGCCACGCTGCGGCAA
CCCAGATGTGGCCAACTACAACTTCTTCCCTCGCAAGCCCAAGTGGGACAAGAACCAGATCACATACAGGATCAT
TGGCTACACACCTGATCTGGACCCAGAGACAGTGGATGATGCCTTTGCTCGTGCCTTCCAAGTCTGGAGCGATGT
GACCCCACTGCGGTTTTCTCGAATCCATGATGGAGAGGCAGACATCATGATCAACTTTGGCCGCTGGGAGCATGG
CGATGGATACCCCTTTGACGGTAAGGACGGACTCCTGGCTCATGCCTTCGCCCCAGGCACTGGTGTTGGGGGAGA
CTCCCATTTTGATGACGATGAGCTATGGACCTTGGGAGAAGGCCAAGTGGTCCGTGTGAAGTATGGGAACGCCGA
TGGGGAGTACTGCAAGTTCCCCTTCTTGTTCAATGGCAAGGAGTACAACAGCTGCACTGATACCGGCCGCAGCGA
TGGCTTCCTCTGGTGCTCCACCACCTACAACTTTGAGAAGGATGGCAAGTACGGCTTCTGTCCCCATGAAGCCCT
GTTCACCATGGGCGGCAACGCTGAAGGACAGCCCTGCAAGTTTCCATTCCGCTTCCAGGGCACATCCTATGACAG
CTGCACCACTGAGGGCCGCACGGATGGCTACCGCTGGTGCGGCACCACTGAGGACTACGACCGCGACAAGAAGTA
TGGCTTCTGCCCTGAGACCGCCATGTCCACTGTTGGTGGGAACTCAGAAGGTGCCCCCTGTGTCTTCCCCTTCAC
TTTCCTGGGCAACAAATATGAGAGCTGCACCAGCGCCGGCCGCAGTGACGGAAAGATGTGGTGTGCGACCACAGC
CAACTACGATGATGACCGCAAGTGGGGCTTCTGCCCTGACCAAGGGTACAGCCTGTTCCTCGTGGCAGCCCACGA
GTTTGGCCACGCCATGGGGCTGGAGCACTCCCAAGACCCTGGGGCCCTGATGGCACCCATTTACACCTACACCAA
GAACTTCCGTCTGTCCCAGGATGACATCAAGGGCATTCAGGAGCTCTATGGGGCCTCTCCTGACATTGACCTTGG
CACCGGCCCCACCCCCACGCTGGGCCCTGTCACTCCTGAGATCTGCAAACAGGACATTGTATTTGATGGCATCGC
TCAGATCCGTGGTGAGATCTTCTTCTTCAAGGACCGGTTCATTTGGCGGACTGTGACGCCACGTGACAAGCCCAT
GGGGCCCCTGCTGGTGGCCACATTCTGGCCTGAGCTCCCGGAAAAGATTGATGCGGTATACGAGGCCCCACAGGA
GGAGAAGGCTGTGTTCTTTGCAGGGAATGAATACTGGATCTACTCAGCCAGCACCCTGGAGCGAGGGTACCCCAA
GCCACTGACCAGCCTGGGACTGCCCCCTGATGTCCAGCGAGTGGATGCCGCCTTTAACTGGAGCAAAAACAAGAA
GACATACATCTTTGCTGGAGACAAATTCTGGAGATACAATGAGGTGAAGAAGAAAATGGATCCTGGCTTCCCCAA
GCTCATCGCAGATGCCTGGAATGCCATCCCCGATAACCTGGATGCCGTCGTGGACCTGCAGGGCGGCGGTCACAG
CTACTTCTTCAAGGGTGCCTATTACCTGAAGCTGGAGAACCAAAGTCTGAAGAGCGTGAAGTTTGGAAGCATCAA
ATCCGACTGGCTAGGCTGCTGAGCTGGCCCTGGCTCCCACAGGCCCTTCCTCTCCACTGCCTTCGATACACCGGG
CCTGGAGAACTAGAGAAGGACCCGGAGGGGCCTGGCAGCCGTGCCTTCAGCTCTACAGCTAATCAGCATTCTCAC
TCCTACCTGGTAATTTAAGATTCCAGAGAGTGGCTCCTCCCGGTGCCCAAGAATAGATGCTGACTGTACTCCTCC
CAGGCGCCCCTTCCCCCTCCAATCCCACCAACCCTCAGAGCCACCCCTAAAGAGATACTTTGATATTTTCAACGC
AGCCCTGCTTTGGGCTGCCCTGGTGCTGCCACACTTCAGGCTCTTCTCCTTTCACAACCTTCTGTGGCTCACAGA
ACCCTTGGAGCCAATGGAGACTGTCTCAAGAGGGCACTGGTGGCCCGACAGCCTGGCACAGGGCAGTGGGACAGG
GCATGGCCAGGTGGCCACTCCAGACCCCTGGCTTTTCACTGCTGGCTGCCTTAGAACCTTTCTTACATTAGCAGT
TTGCTTTGTATGCACTTTGTTTTTTTCTTTGGGTCTTGTTTTTTTTTCCACTTAGAAATTGCATTTCCTGACAG
AAGGACTCAGGTTGTCTGAAGTCACTGCACAGTGCATCTCAGCCCACATAGTGATGGTTCCCCTGTTCACTCTAC
TTAGCATGTCCCTACCGAGTCTCTTCTCCACTGGATGGAGGAAAACCAAGCCGTGGCTTCCCGCTCAGCCCTCCC
TGCCCCTCCCTTCAACCATTCCCCATGGGAAATGTCAACAAGTATGAATAAAGACACCTACTGAGTGGC
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4864/6881
# FIGURE 4485

CACATGTAAACTACTTGAACTCCATTTCATCTTTTTTCATACCATCTCTAAGATTGCTGCCGCATTTGCTTGTTA
AACTGAAAGC**ATG**TTTCTTGCAAAGGCTCTATTGGAAGGAGCAGATCGAGGTCTTGGAGAAGCTCTTGGAGGCCT
CTTTGGAGGAGGTGGTCAGAGAAGAGAAGGAGGAGGAAGAAATATTGGAGGGATAGTTGGAGGAATTGTGAATTT
TATCAGTGAGGCTGCAGCAGCTCAGTATACTCCAGAACCGCCTCCCACTCAGCAGCATTTCACCAGTGTGGAGGC
CTCAGAAAGTGAGGAAGTTAGGCGATTTCGGCAACAATTTACACAGCTGGCTGGACCAGACATGGAGGTGGGTGC
CACTGATCTGATGAATATTCTCAACAAAGTCCTTTCTAAGCACAAAGATCTTAAGACTGACGGTTTTAGTCTTGA
CACCTGCCGGAGCATTGTGTCTGTCATGGACAGTGACACGACTGGTAAGCTGGGCTTTGAAGAATTTAAGTATCT
GTGGAACAACATCAAGAAATGGCAGTGTGTTTATAAGCAGTATGACAGGGACCATTCTGGGTCTCTGGGAAGTTC
TCAGCTGCGGGGAGCTCTGCAGGCCGCAGGCTTCCAGCTAAATGAACAACTTTACCAAATGATTGTCCGCCGGTA
TGCTAATGAAGATGGAGATATGGATTTTAACAATTTCATCAGCTGCTTGGTCCGCCTGGATGCCATGTTTCGTGC
CTTCAAGTCTCTGGATAGAGATAGAGATGGCCTGATTCAAGTGTCTATCAAAGAATGGCTGCAGTTGACCATGTA
TTCC**TGA**AGTGGGAACTGAGAAGTCAAGATCCTCCCTGGAGGACAGGACTGAAAACCTTGCCAAGCTGTACACAG
TTGCTGATACCCTGTGCAACAGCTCTCATTTCCTGGCAAGCTCTTTCACAACCCTACATATTTCTGATCATGTGC
TGCCTTTTACTGCTGAATTAAAACAGATATTTCATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

# FIGURE 4486

MFLAKALLEGADRGLGEALGGLFGGGGQRREGGGRNIGGIVGGIVNFISEAAAAQYTPEPPPTQQHFTSVEASES
EEVRRFRQQFTQLAGPDMEVGATDLMNILNKVLSKHKDLKTDGFSLDTCRSIVSVMDSDTTGKLGFEEFKYLWNN
IKKWQCVYKQYDRDHSGSLGSSQLRGALQAAGFQLNEQLYQMIVRRYANEDGDMDFNNFISCLVRLDAMFRAFKS
LDRDRDGLIQVSIKEWLQLTMYS

# FIGURE 4487

CCTCGGCGTGCCCCCAGGACCGGTAAAGTTCCTCTCGCCAGCCGCATCC<u>ATG</u>CTTCTGGCGCGGATGAACCCGCA
GGTGCAGCCCGAGAACAACGGGGCGGACACGGGTCCAGAGCAGCCCCTTCGGGCGCGCAAAACTGCGGAGCTGCT
GGTGGTGAAGGAGCGCAACGGCGTCCAGTGCCTGCTGGCGCCCCGCGACGGCGACGCGCAGCCCCGGGAGACCTG
GGGCAAGAAGATCGACTTCCTGCTGTCCGTAGTCGGCTTCGCAGTGGACCTGGCCAACGTGTGGCGCTTCCCCTA
CCTCTGCTACAAGAACGGCGGCGGTGCCTTCTTGATCCCGTACACACTGTTCCTTATCATCGCGGGGATGCCCCT
GTTCTACATGGAGCTGGCTCTGGGACAGTACAACCGGGAGGGGGCTGCCACCGTTTGGAAAATCTGCCCATTCTT
CAAAGGCGTTGGCTATGCTGTCATCCTGATCGCCCTGTACGTTGGCTTCTACTACAACGTCATCATCGCCTGGTC
ACTCTACTACCTCTTCTCCTCCTTCACCCTCAACCTGCCCTGGACCGACTGTGGCCACACCTGGAACAGCCCCAA
CTGTACCGACCCCAAGCTCCTCAATGGCTCCGTGCTTGGCAACCACACCAAGTACTCCAAGTACAAGTTCACGCC
GGCAGCCGAGTTTTATGAGCGTGGTGTCCTGCACCTTCACGAGAGCAGCGGGATTCATGACATCGGCCTGCCCCA
GTGGCAGCTCTTGCTCTGTCTGATGGTCGTCGTCATCGTCTTGTATTTTAGCCTCTGGAAAGGGGTGAAGACATC
AGGAAAGGTGGTGTGGATCACAGCCACGCTGCCTTACTTCGTGCTGTTCGTGCTCCTGGTCCATGGCGTCACGCT
GCCCGGAGCCTCCAATGGCATCAATGCCTACCTGCACATCGACTTCTACCGCTTGAAAGAGGCCACGGTATGGAT
TGATGCCGCAACTCAGATATTTTTTTCCTTGGGGGCTGGATTTGGAGTATTGATTGCATTTGCCAGTTACAACAA
ATTTGACAACAACTGTTACAGGGATGCCCTGCTGACCAGCAGCATCAACTGTATCACCAGCTTCGTCTCTGGGTT
CGCCATCTTCTCCATCCTTGGTTACATGGCCCATGAACACAAGGTCAACATTGAGGATGTGGCCACAGAAGGAGC
TGGCCTAGTGTTCATCCTGTATCCAGAGGCCATTTCTACCCTGTCTGGATCTACATTCTGGGCTGTTGTGTTTTT
CGTCATGCTCCTGGCGCTGGGCCTTGACAGCTCAATGGGAGGCATGGAGGCTGTCATCACGGGCCTGGCAGATGA
CTTCCAGGTCCTGAAGCGACACCGGAAACTCTTCACATTTGGCGTCACCTTCAGCACTTTCCTTCTCGCCCTGTT
CTGCATAACCAAGGGTGGAATTTACGTCTTGACCCTCCTGGACACCTTTGCTGCGGGCACCTCCATCCTTTTTGC
TGTCCTCATGGAAGCCATCGGAGTTTCCTGGTTTTATGGAGTGGACAGGTTCAGCAACGACATCCAGCAGATGAT
GGGGTTCAGGCCGGGTCTATACTGGAGACTGTGCTGGAAGTTCGTCAGTCCTGCCTTCCTCCTGTTCGTGGTTGT
GGTCAGCATCATCAACTTCAAGCCACTCACCTACGACGACTACATCTTCCCGCCCTGGGCCAACTGGGTGGGGTG
GGGCATCGCCCTGTCCTCCATGGTCCTGGTGCCCATCTACGTCATCTATAAGTTCCTCAGCACGCAGGGCTCTCT
TTGGGAGAGACTGGCCTATGGCATCACGCCAGAGAACGAGCACCACCTGGTGGCTCAGAGGGACATCAGACAGT̄T
CCAGTTGCAACACTGGCTGGCCATC<u>TGA</u>GCCTGCCTGGAGGAGAAGGAGGAACCCCCATGCCAATGTCCAGGTCA
CAGGCATCCGCTGCGCTCCCACCTCGGACACCATCTTGGGATTCCTCCCCTGGAAGTTGTCCTTTCTGATCCTCT
CTTCTTTTTCCCATTTACAAATGATTTCGTGACTGTAGTTTTTGTTCACCTTCTGTGCATCTGGCCTGGGGGCTGT
TAGCTCAGAGGAGAGGAGCAAACAGGAAAATGACTT

4867/6881
# FIGURE 4488

MLLARMNPQVQPENNGADTGPEQPLRARKTAELLVVKERNGVQCLLAPRDGDAQPRETWGKKIDFLLSVVGFAVD
LANVWRFPYLCYKNGGGAFLIPYTLFLIIAGMPLFYMELALGQYNREGAATVWKICPFFKGVGYAVILIALYVGF
YYNVIIAWSLYYLFSSFTLNLPWTDCGHTWNSPNCTDPKLLNGSVLGNHTKYSKYKFTPAAEFYERGVLHLHESS
GIHDIGLPQWQLLLCLMVVVIVLYFSLWKGVKTSGKVVWITATLPYFVLFVLLVHGVTLPGASNGINAYLHIDFY
RLKEATVWIDAATQIFFSLGAGFGVLIAFASYNKFDNNCYRDALLTSSINCITSFVSGFAIFSILGYMAHEHKVN
IEDVATEGAGLVFILYPEAISTLSGSTFWAVVFFVMLLALGLDSSMGGMEAVITGLADDFQVLKRHRKLFTFGVT
FSTFLLALFCITKGGIYVLTLLDTFAAGTSILFAVLMEAIGVSWFYGVDRFSNDIQQMMGFRPGLYWRLCWKFVS
PAFLLFVVVVSIINFKPLTYDDYIFPPWANWVGWGIALSSMVLVPIYVIYKFLSTQGSLWERLAYGITPENEHHL
VAQRDIRQFQLQHWLAI

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## FIGURE 4489

GAACTGTCGCCCTTCCAGGATGTGGCTCCCTGCTCTTGTCCTGGCCACTCTCGCTGCTTCCGCGGCTTGGGGGCA
TCCGTCCTCGCCACCTGTGGTGGACACCGTGCATGGCAAAGTGCTGGGGAAGTTCGTCAGCTTAGAAGGATTTGC
ACAGCCTGTGGCCATTTTCCTGGGAATCCCTTTTGCCAAGCCGCCTCTTGGACCCCTGAGGTTTACTCCACCGCA
GCCTGCAGAACCATGGAGCTTTGTGAAGAATGCCACCTCGTACCCTCCTATGTGCACCCAAGATCCCAAGGCGGG
GCAGTTACTCTCAGAGCTATTTACAAACCGAAAGGAGAACATTCCTCTCAAGCTTTCTGAAGACTGTCTTTACCT
CAATATTTACACTCCTGCTGACTTGACCAAGAAAAACAGGCTGCCGGTGATGGTGTGGATCCACGGAGGGGGGCT
GATGGTGGGTGCGGCATCAACCTATGATGGGCTGGCCCTTGCTGCCCATGAAAACGTGGTGGTGGTGACCATTCA
ATATCGCCTGGGCATCTGGGGATTCTTCAGCACAGGGGATGAACACAGCCGGGGGAACTGGGGTCACCTGGACCA
GGTGGCTGCCCTGCGCTGGGTCCAGGACAACATTGCCAGCTTTGGAGGGAACCCAGGCTCTGTGACCATCTTTGG
AGAGTCAGCGGGAGGAGAAAGTGTCTCTGTTCTTGTTTTGTCTCCATTGGCCAAGAACCTCTTCCACCGGGCCAT
TTCTGAGAGTGGCGTGGCCCTCACTTCTGTTCTGGTGAAGAAAGGTGATGTCAAGCCCTTGGCTGAGCAAATTGC
TATCACTGCTGGGTGCAAAACCACCACCTCTGCTGTCATGGTTCACTGCCTGCGACAGAAGACGGAAGAGGAGCT
CTTGGAGACGACATTGAAAATAAATTCTTATCTCTGGACTTACAGGGAGACCCCAGAGAGAGTCAACCCCTTCTG
GGCACTGTGATTGATGGGATGCTGCTGCTGAAAACACCTGAAGAGCTTCAAGCTGAAAGGAATTTCCACACTGTC
CCCTACATGGTCGGAATTAACAAGCAGGAGTTTGGCTGGTTGATTCCAATGTTGATGAGCTATCCACTCTCCGAA
GGGCAACTGGACCAGAAGACAGCCATGTCACTCCTGTGGAAGTCCTATCCCCTTGTTTGCATTGCTAAGGAACTG
ATTCCAGAAGCCACTGAGAAATACTTAGGAGGAACAGACGACACTGTCAAAAAGAAAGACCTGTTCCTGGACTTG
ATAGCAGATGTGATGTTTGGTGTCCCATCTGTGATTGTGGCCCGGAACCACAGAGATGCTGGAGCACCCACCTAC
ATGTATGAGTTTCAGTACCGTCCAAGCTTCTCATCAGACATGAAACCCAAGACGGTGATAGGAGACCACGGGGAT
GAGCTCTTCTCCGTCTTTGGGGCCCCATTTTTAAAAGAGGGTGCCTCAGAAGAGGAGATCAGACTTAGCAAGATG
GTGATGAAATTCTGGGCCAACTTTGCTCGCAATGGAAACCCCAATGGGGAAGGGCTGCCCCACTGGCCAGAGTAC
AACCAGAAGGAAGGGTATCTGCAGATTGGTGCCAACACCCAGGCGGCCCAGAAGCTGAAGGACAAAGAAGTAGCT
TTCTGGACCAACCTCTTTGCCAAGAAGGCAGTGGAGAAGCCACCCCAGACAGAACACATAGAGCTGTGAATGAAG
ATCCAGCCGGCCTTGGGAGCCTGGAGGAGCAAAGACTGGGGTCTTTTGCGAAAGGGATTGCAGGTTCAGAAGGCA
TCTTACCATGGCTGGGGAATTGTCTGGTGGTGGGGGGCAGGGGACAGAGGCCATGAAGGAGCAAGTTTTGTATTT
GTGACCTCAGCTTTGGGAATAAAGGATCTTTTGAAGGCC

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## FIGURE 4490

CTCCGCCAGGACCCCCGAGGGCGAGCGCCTGGGGGGGCGCGGCCTTGCTCGCGGGAGCGCTGCTGAGGGAGAGTGG
TTCTAGTAAATACCGCTTGCTGTGTTTTGATGTTGGTGGCTAAGCTCATCCAGTGTATTGTGTTTGGCCCTCTTC
GAGTGAGTGAGAGACAGCATCTCAAAGACAAATTTTGGAATTTTATTTTCTACAAGTTCATTTTCATCTTTGGTG
TGCTGAATGTCCAGACAGTGGAAGAGGTGGTCATGTGGTGCCTCTGGTTTGCCGGACTTGTCTTTCTGCACCTGA
TGGTTCAGCTCTGCAAGGATCGATTTGAATATCTTTCCTTCTCGCCCACCACGCCGATGAGCAGCCACGGTCGAG
TCCTGTCCCTGTTGGTTGCCATGCTGCTTTCCTGCTGTGGACTGGCGGCCGTCTGCTCCATCACCGGCTACACCC
ACGGAATGCACACCTTGGCTTTCATGGCTGCAGAGTCTCTTCTTGTGACAGTGAGGACTGCTCATGTGATTTTAC
GATACGTAATTCACCTCTGGGACCTCAACCACGAAGGGACGTGGGAAGGAAAGGGGACGTATGTCTATTACACAG
ACTTTGTCATGGAGCTCACTCTCCTGTCCCTGGACCTCATGCACCATATTCACATGTTGTTATTTGGCAACATCT
GGTTATCCATGGCCAGCCTGGTCATCTTTATGCAGCTGCGTTACCTGTTTCATGAGGTGCAACGTCGAATTCGTC
GGCACAAGAACTATCTACGTGTGGTTGGAAACATGGAGGCCAGGTTTGCAGTTGCAACTCCAGAGGAGCTGGCTG
TCAACAATGACGACTGTGCCATCTGTTGGGACTCCATGCAGGCTGCGCGGAAACTGCCCTGTGGACATCTTTTCC
ACAACTCCTGTCTTCGTTCCTGGCTAGAACAAGACACCTCCTGTCCAACATGCAGAATGTCTCTTAATATTGCCG
ACAATAATCGTGTCAGGGAAGAACATCAAGGAGAGAACTTGGATGAGAATTTGGTTCCTGTAGCAGCAGCCGAAG
GGAGACCTCGCTTAAACCAACACAATCACTTCTTCCATTTCGATGGGTCTCGGATTGCGAGCTGGCTGCCGAGTT
TTTCGGTTGAAGTGATGCACACCACCAACATTCTTGGCATTACGCAGGCCAGCAACTCCCAGCTCAATGCAATGG
CTCATCAGATTCAAGAGATGTTTCCCCAGGTTCCATACCATCTGGTACTGCAGGACCTCCAGCTGACACGCTCAG
TTGAAATAACAACAGACAATATTTTAGAAGGACGGATTCAAGTACCTTTTCCTACACAGCGGTCAGATAGCATCA
GACCTGCATTGAACAGTCCTGTGGAAAGGCCAAGCAGTGACCAGGAAGAGGGAGAAACTTCTGCTCAGACCGAGC
GTGTGCCACTGGACCTCAGTCCTCGCCTGGAGGAGACGCTGGACTTCGGCGAGGTGGAAGTGGAGCCCAGTGAGG
TGGAAGACTTCGAGGCTCGTGGGAGCCGCTTCTCCAAGTCTGCTGATGAGAGACAGCGCATGCTGGTGCAGCGTA
AGGACGAACTCCTCCAGCAAGCTCGCAAACGTTTCTTGAACAAAAGTTCTGAAGATGATGCGGCCTCAGAGAGCT
TCCTCCCCTCGGAAGGTGCGTCCTCTGACCCCGTGACCCTGCGTCGAAGGATGCTGGCTGCCGCCGCGGAACGGA
GGCTTCAGAAGCAGCAGACCTCCTAGCGCTCCCTTGCCTTCCTCAGCTGCCTCCTGCGCCCTGTGCCCGACTGAC
TGGAGGAGGCCTGTCCCAATTCTGCCCGCTCCATGGAAAAGCGGGCTTGACTGCATTGCCGCTGTATAAAGCATG
TGGTCTTATAGTGTTTGGACAGCTGATAAATTTAATCCTTCTTTGTAATACTTTCTATGTGACATTTCTCTTCCC
CTTAGAAACACTGCAAATTTTAACTGTAGGTATGATCTCTTCTGGTGTTGACTGGACTGCTTGGGGTGGGGGACG
ATCAGGAGGAAGTGAGCAGTCGCCTGCCTGCAGCAGGCAGCTTCTACTCCTGCCTCATGCGTACGTCCCACAAAT
GCAGGTGTCCTGAGCACCACACCCAGTGGGAAGAGTGTGGGGGAGGCGCACAGTGTGAGCCCGCCCCCACGTCGT
GGGGTAACATCTGTTATCAAACTGCTGTCGTTGTTGTGGAAGCATGTAGACTGTGCCAGAGGCCAGACCCACGGG
CTCATGCACCCCTGAGCCAGCAGGGCATCTTGGAAAAGGAACTCTTGGTTCGATACCTGGAGCAGAGGAGGGGAA
AGTCCAGGGCTATAGGGTGTGATGAAGTCACCCCTTTCTGTCCCACTACATCTGGGACTGACTTTCCGAGCCTCC
AGTCCAAAGCCGGCTTGATTTCCGTGAACTCTGGTGCTCCTGCATCTCATGAGTGTGCCCCATGGGTCCCCTCCC
CTCTCAGCATTTCCTTGTCCCGTCTGGACCTGGGGAGTGGTTAGGCAGCAAGCTTTGGTTATGGTTTTCATTCA
TTGGTGAAGTAAATTAGGCAGTGCTAAAGCCTGTGGGTTTGGTCCTTGAACAAGATGTGGGCCTTGCAAGATGGG
AGAGTAAACCTTGAAGGGCTTTATTAAAGAAATAAAAAAGAACTTTTGTATCTTTTATCCTGGGAGCACTGCGTT
TTCCTAGCTGTGTTATTCCTGGTTTAATTCAGCAGAGAAGGTAAGGTGTGAACCTACCTGCCTTGGAGAGGGCCC
AGGTCCCAAATCTCTTCAAATTCTTCACATGTTTAACTTTAAGGATTTGAACCATGAAGTCATAGGTTACAGACC
TCAGTTTTATGCCCCATTGGATTACTTTTTTTTTTTTTTTTTTTTTTTTTTTACTCTTTGAAAGCTTTGTTT
TGTGGTAGTCCTTTTGGGAAGAATCCAGTATTATCCACAATTATTGGCAAAGTTTAAATGTATTTTACATAACGG
AAAGTTTTTAGAATGTTGAAAAGTAATTGAAAAAGGTGATAGGTAAATTTTTAGGCAAAGATAATTTATTTCAAT
AAATCTTTCAAAAGCCTTACCTTGAAATGCTGTTAGTAAATTTCTGTGATTTTTTTTTTAATTTGTTTTGCTGA
GAGCATAGCTATTTGTTTTTATTGTAAA

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# FIGURE 4491

CTTGTTCGTCTCACTGGTGTGAGCTCCAGCATCCCCTTTGCTCGAA**ATG**GACCCCAACTGCTCTTGCGCCACTGG
TGGCTCCTGCACGTGCGCCGGCTCCTGCAAGTGCAAAGAGTGCAAATGCACCTCCTGCAAGAAGAGTGAGTGCGG
GGCCATCTCCAGGAATCTGGGGCTGTGGCTCAGGTTGGGAGGGAACTCAAGGCTGGCCCTGAGTGCATCCTTCTG
GGGAACTGGGCTTTCTTTGCCCTCATTGCCCGTGTCATTCCCTCTCCAGGCTTTCTGCCCTAAATTCAGATGGGG
CAGGACAGCATTTTTCTCGTGGGACACAAACCCCAACTGTACCCCCTATGGTTTCAGAACAGAGCTGTGCCAGAC
GAAAAAAAGCATCCTCTGGGTCTGGGTTCTGAGCTCGAGCCAGGCTTGCTAT**TAG**GGCAGGGAGGTGCCCGGTCA
AGTCTACTGCCACCTCTCACTCTCCCCTTCTTCCCCAGGCTGCTGTTCCTGCTGCCCCGTGGGCTGTGCCAAGTG
TGCCCAGGGCTGCGTCTGCAAAGGGGCATCGGAGAAGTGCAGCTGCTGTGCCTGATGTGGGAACAGCTCTTCTCC
CAGATGTAAATAGAACAACCTGCACAACCTGGATTTTTTTAAAAATACAACACTGAGCCATTTGCTGCATTTCTT
TTTATACTAAATATGTGACTGACAATAAAAACAATTTTGACTTT

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## FIGURE 4492

MDPNCSCATGGSCTCAGSCKCKECKCTSCKKSECGAISRNLGLWLRLGGNSRLALSASFWGTGLSLPSLPVSFPL
QAFCPKFRWGRTAFFSWDTNPNCTPYGFRTELCQTKKSILWVWVLSSSQACY

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## FIGURE 4493

CCGCTGCGTGTTTTCCTCTTGATCGGGAACTCCTGCTTCTCCTTGCCTCGAA**ATG**GACCCCAACTGCTCCTGCTC
GCCTGTTGGCTCCTGTGCCTGTGCCGGCTCCTGCAAATGCAAAGAGTGCAAATGCACCTCCTGCAAGAAGAGCTG
CTGCTCCTGCTGCCCTGTGGGCTGTGCCAAGTGTGCCCAGGGCTGCATCTGCAAAGGGACGTCAGACAAGTGCAG
CTGCTGTGCC**TGA**TGCCAGGACAGCTGTGCTCTCAGATGTAAATAGAGCAACCTATATAAACCTGGATTTTTTTT
TTTTTTTTTTTTGTACAACCCTGACCCGTTTGCTACATCTTTTTTTTCTATGAAATATGTGAATGGCAATAAATTC
ATCTAGACT

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# FIGURE 4494

MDPNCSCSPVGSCACAGSCKCKECKCTSCKKSCCSCCPVGCAKCAQGCICKGTSDKCSCCA

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## FIGURE 4495

CTGAGCGACAGCAAGTGCAGCGGGCTCCTACCCCGGGTGAGGGGTGGCCTCCGCGTGGGATCGTGCCCTCTTCAG
CCCGCTCCTGTCCCCGACATCACGTGTATTCCGCACGTCCCCTCCGCGCTGTGTGTCTACTGAGACGGGGAGGCG
TGACAGGGCCCGGGTCCCTTCTCAGTGGTGCTCTGTGCTTCAGGGCAAGCTCCCCGTCTCCGGGCGCACTTCCCT
CGCCTGTGTTCGGTCCATCCTCCTTTCTCCAGCCTCCTCCCCTCGCAGGTGGGATCGTCGGTGGGACCGGAGCGC
GGGCGGGCGCGGCCCCCCGGGACC**ATG**GCCGGGTCCGACACCGCGCCCTTCCTCAGCCAGGCGGATGACCCGGAC
GACGGGCCAGTGCCTGGCACCCCGGGGGTTGCCAGGGTCCACGGGGAACCCGAAGTCCGAGGAGCCCGAGGTCCCG
GACCAGGAGGGGCTGCAGCGCATCACCGGCCTGTCTCCCGGCCGTTCGGCTCTCATAGTGGCGGTGCTGTGCTAC
ATCAATCTCCTGAACTACATGGACCGCTTCACCGTGGCTGGCGTCCTTCCCGACATCGAGCAGTTCTTCAACATC
GGGGACAGTAGCTCTGGGCTCATCCAGACCGTGTTCATCTCCAGTTACATGGTGTTGGCACCTGTGTTTGGCTAC
CTGGGTGACAGGTACAATCGGAAGTATCTCATGTGCGGGGGCATTGCCTTCTGGTCCCTGGTGACACTGGGGGTCA
TCCTTCATCCCCGGAGAGCATTTCTGGCTGCTCCTCCTGACCCGGGGCCTGGTGGGGGTCGGGGAGGCCAGTTAT
TCCACCATCGCGCCCACTCTCATTGCCGACCTCTTTGTGGCCGACCAGCGGAGCCGGATGCTCAGCATCTTCTAC
TTTGCCATTCCGGTGGGCAGTGGTCTGGGCTACATTGCAGGCTCCAAAGTGAAGGATATGGCTGGAGACTGGCAC
TGGGCTCTGAGGGTGACACCGGGTCTAGGAGTGGTGGCCGTTCTGCTGCTGTTCCTGGTAGTGCGGGAGCCGCCA
AGGGGAGCCGTGGAGCGCCACTCAGATTTGCCACCCCTGAACCCCACCTCGTGGTGGGCAGATCTGAGGGCTCTG
GCAAGAAATCCTAGTTTCGTCCTGTCTTCCCTGGGCTTCACTGCTGTGGCCTTTGTCACGGGCTCCCTGGCTCTG
TGGGCTCCGGCATTCCTGCTGCGTTCCCGCGTGGTCCTTGGGGAGACCCCACCCTGCCTTCCCGGAGACTCCTGC
TCTTCCTCTGACAGTCTCATCTTTGGACTCATCACCTGCCTGACCGGAGTCCTGGGTGTGGGCCTGGGTGTGGAG
ATCAGCCGCCGGCTCCGCCACTCCAACCCCCGGGCTGATCCCCTGGTCTGTGCCACTGGCCTCCTGGGCTCTGCA
CCCTTCCTCTTCCTGTCCCTTGCCTGCGCCCGTGGTAGCATCGTGGCCACTTATATTTTCATCTTCATTGGAGAG
ACCCTCCTGTCCATGAACTGGGCCATCGTGGCCGACATTCTGCTGTACGTGGTGATCCCTACCCGACGCTCCACC
GCCGAGGCCTTCCAGATCGTGCTGTCCCACCTGCTGGGTGATGCTGGGAGCCCCTACCTCATTGGCCTGATCTCT
GACCGCCTGCGCCGGAACTGGCCCCCCTCCTTCTTGTCCGAGTTCCGGGCTCTGCAGTTCTCGCTCATGCTCTGC
GCGTTTGTTGGGGCACTGGGCGGCGCAGCCTTCCTGGGCACCGCCATCTTCATTGAGGCCGACCGCCGGCGGGCA
CAGCTGCACGTGCAGGGCCTGCTGCACGAAGCAGGGTCCACAGACGACCGGATTGTGGTGCCCCAGCGGGGCCGC
TCCACCCGCGTGCCCGTGGCCAGTGTGCTCATC**TGA**GAGGCTGCCGCTCACCTACCTGCACATCTGCCACAGCTG
GCCCTGGGCCCACCCCACGAAGGGCCTGGGCCTAACCCCTTGGCCTGGCCCAGCTTCCAGAGGGACCCTGGGCCG
TGTGCCAGCTCCCAGACACTACATGGGTAGCTCAGGGGAGGAGGTGGGGGTCCAGGAGGGGGGATCCCTCTCCACA
GGGGCAGCCCCAAGGGCTCGGTGCTATTTGTAACGGAATAAAATTTGTGCCAGAAAAAAAAAAAA

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# FIGURE 4496

MAGSDTAPFLSQADDPDDGPVPGTPGLPGSTGNPKSEEPEVPDQEGLQRITGLSPGRSALIVAVLCYINLLNYMD
RFTVAGVLPDIEQFFNIGDSSSGLIQTVFISSYMVLAPVFGYLGDRYNRKYLMCGGIAFWSLVTLGSSFIPGEHF
WLLLLTRGLVGVGEASYSTIAPTLIADLFVADQRSRMLSIFYFAIPVGSGLGYIAGSKVKDMAGDWHWALRVTPG
LGVVAVLLLFLVVREPPRGAVERHSDLPPLNPTSWWADLRALARNPSFVLSSLGFTAVAFVTGSLALWAPAFLLR
SRVVLGETPPCLPGDSCSSSDSLIFGLITCLTGVLGVGLGVEISRRLRHSNPRADPLVCATGLLGSAPFLFLSLA
CARGSIVATYIFIFIGETLLSMNWAIVADILLYVVIPTRRSTAEAFQIVLSHLLGDAGSPYLIGLISDRLRRNWP
PSFLSEFRALQFSLMLCAFVGALGGAAFLGTAIFIEADRRRAQLHVQGLLHEAGSTDDRIVVPQRGRSTRVPVAS
VLI

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## FIGURE 4497

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GGCGCGGAGGAGGAGGTTCCCGGAAGCCACGCGCAGCTGGAGCAGCGGCGACCGCAGCTGGAGGCCCGGAGCGCC
TGCGGGGCTGGCAGAGGCGAGGGAGGTTGCGGGTAGGAAGGGCGGACTGCGCGCGCCCCCTGCGTCCCGCGCACC
TCGGGGCCGGTCCATGCTCCCGACGGCTGCGGGCTTCAGCATCTGGGGCCAGGTTGGGGCGGCGGGGTCCAGGGC
GCAGGTGGTGCGGCCGATGCGCCGGGCCGGAGGCTGAGGCCGCGCTGCGGGGCTGGGACAGCACTGGCATCTCCA
GAGCAGGCCCGGGGCAGCAAGGGAGGCGCCGCGATGCCAGACGAAAATATCTTCCTGTTCGTGCCCAACCTCATC
GGTTATGCCCGGATTGTCTTCGCCATCATTTCTTTCTACTTCATGCCCTGCTGCCCCCTCACGGCCTCCTCCTTC
TACCTGCTCAGCGGCCTGCTGGACGCTTTCGATGGACACGCTGCTCGCGCTCTTAATCAAGGAACCCGGTTTGGG
GCCATGCTGGACATGCTGACGGACCGCTGCTCCACCATGTGCCTGTTGGTCAACCTGGCCCTGCTGTACCCTGGA
GCCACGCTGTTCTTCCAAATCAGCATGAGTTTGGATGTGGCCAGTCACTGGCTGCACCTCCACAGTTCTGTGGTC
CGAGGCAGTGAGAGTCACAAGATGATCGACTTGTCCGGGAATCCGGTGCTTCGGATCTACTACACCTCGAGGCCT
GCTCTGTTCACCTTGTGTGCTGGGAATGAGCTCTTCTACTGCCTCCTCTACCTGTTCCATTTCTCTGAGGGACCT
TTAGTTGGCTCTGTGGGACTGTTCCGGATGGGCCTCTGGGTCACTGCCCCCATCGCCTTGCTGAAGTCGCTCATC
AGCGTCATCCACCTGATCACGGCCGCCCGCAACATGGCTGCCCTGGACGCAGCAGACCGCGCCAAGAAGAAGTGA
CGCTGGAGCCCCGGGTCCTGGCTGCCCACCTGCCCTGGGAGTCTTGCTGTGCCACACAGCTCCCCACCCCCTGCT
AGGAGGTCCCAGTCTCACGCCTTCCTCATGTGTTGTTCTACCTGCTGGGATGGGGGTCAGCCTCTCTTTGGTGAC
GTCACGTTCTCTGGGATCCTGAGGACCCGGGCCTCAAATCAGGGAGGATACGCGGGAGGCCCCCTCCATCCAGGC
GGTGCTCCTGGGGTGCCGGGACCGGGCAGTGTCACACCCTGCCTGCTCAGTCCTGGGGTCCGAGATGCTAGGGAC
GCTTGAGTGAGGGAGGTGGTGTGAGGGCCAGGTTTCCTGAAAGGCGGGAGTCAGACCTCCGCCCCCAGCCAGAGC
AAGCTTGGGGCACCATGCCCAGGAGGGAAGAAGCCATCCACAGCCTTCCCTGTCACCGGCTCCTCTGTCCTGCCT
ACCCTGGTCCTGGCGGGACTTCACTATTTGACTTGGTTTCCTTTCAGATATTCTTGGCTCAGGGCCTGGGTTGAG
GGAGCTTAGGGAAGGACGTCCGTCTGGGTGCTTTTCCTCCAGTTTGCTGGCTGGCTTCTCCGTCTACCCACAGTG
ACCTCACAGAGAGGCCCTCCTGCCACCCATGCTCATGTGGTGTCCCCACCGCCCACTTGTTTGATGTCACTGACT
GTCTACATGTATTTATATTCTTGATATTTTCTACCCTCACTAGAATGTAAACTCCATGAAGGCACAGACTTTTCT
TGTTCTCTTCTATCCCTAGAGTAAGACCAACTTGAACCTGGCATATAGTAGCTGCTTAATAAATACTCGTCTG
TC
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## FIGURE 4498

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TTCCCCATCTGAGGCGTTTGTTGCAGCTACCTGCACTTCTAGATGCTCCCCAGGTTCATCCTGTGTCGTCTCCCC
CACCTACCAGTCATCTTCTTGTGAGCCCTGGGCTTAGGAGTCACCATGGCAACTGAAGAGTTCATCATCCGCATC
CCCCCATACCACTATATCCATGTGCTGGACCAGAACAGCAACGTGTCCCGTGTGGAGGTCGGGCCAAAGACCTAC
ATCCGGCAGGACAATGAGAGGGTACTGTTTGCCCCCATGCGCATGGTGACCGTCCCCCCACGTCACTACTGCACA
GTGGCCAACCCTGTGTCTCGGGATGCCCAGGGCTTGGTGCTGTTTGATGTCACAGGGCAAGTTCGGCTTCGCCAC
GCTGACCTCGAGATCCGGCTGGCCCAGGACCCCTTCCCCCTGTACCCAGGGGAGGTGCTGGAAAAGGACATCACA
CCCCTGCAGGTGGTTCTGCCCAACACTGCCCTCCATCTAAAGGCGCTGCTTGATTTTGAGGATAAAGATGGAGAC
AAGGTGGTGGCAGGAGATGAGTGGCTTTTCGAGGGACCTGGCACGTACATCCCCCGGAAGGAAGTGGAGGTCGTG
GAGATCATTCAGGCCACCATCATCAGGCAGAACCAGGCTCTGCGGCTCAGGGCCCGCAAGGAGTGCTGGGACCGG
GACGGCAAGGAGAGGGTGACAGGGGAAGAATGGCTGGTCACCACAGTAGGGGCGTACCTCCCAGCGGTGTTTGAG
GAGGTTCTGGATTTGGTGGACGCCGTCATCCTTACGGAAAAGACAGCCCTGCACCTCCGGGCTCGGCGGAACTTC
CGGGACTTCAGGGGAGTGTCCCGCCGCACTGGGGAGGAGTGGCTGGTAACAGTGCAGGACACAGAGGCCCACGTG
CCAGATGTCCACGAGGAGGTGCTGGGGGTTGTGCCCATCACCACCCTGGGCCCCCACAACTACTGCGTGATTCTC
GACCCTGTCGGACCGGATGGCAAGAATCAGCTGGGGCAGAAGCGCGTGGTCAAGGGAGAGAAGTCTTTTTTCCTC
CAGCCAGGAGAGCAGCTGGAACAAGGCATCCAGGATGTGTATGTGCTGTCGGAGCAGCAGGGGCTGCTGCTGAGG
GCCCTGCAGCCCCTGGAGGAGGGGGAGGATGAGGAGAAGGTCTCACACCAGGCTGGGGACCACTGGCTCATCCGC
GGACCCCTGGAGTATGTGCCATCTGCCAAAGTGGAGGTGGTGGAGGAGCGCCAGGCCATCCCTCTAGACGAGAAC
GAGGGCATCTATGTGCAGGATGTCAAGACCGGAAAGGTGCGCGCTGTGATTGGAAGCACCTACATGCTGACCCAG
GACGAAGTCCTGTGGGAGAAAGAGCTGCCTCCCGGGGTGGAGGAGCTGCTGAACAAGGGGCAGGACCCTCTGGCA
GACAGGGGTGAGAAGGACACAGCTAAGAGCCTCCAGCCCTTGGCGCCCCGGAACAAGACCCGTGTGGTCAGCTAC
CGCGTGCCCCACAACGCTGCGGTGCAGGTGTACGACTACCGAGAGAAGCGAGCCCGCGTGGTCTTCGGGCCTGAG
CTGGTGTCGCTGGGTCCTGAGGAGCAGTTCACAGTGTTGTCCCTCTCAGCTGGGCGGCCCAAGCGTCCCCATGCC
CGCCGTGCGCTCTGCCTGCTGCTGGGGCCTGACTTCTTCACAGACGTCATCACCATCGAAACGGCGGATCATGCC
AGGCTGCAACTGCAGCTGGCCTACAACTGGCACTTTGAGGTGAATGACCGGAAGGACCCCCAAGAGACGGCCAAG
CTCTTTTCAGTGCCAGACTTTGTAGGTGATGCCTGCAAAGCCATCGCATCCCGGGTGCGGGGGGCCGTGGCCTCT
GTCACTTTCGATGACTTCCATAAGAACTCAGCCCGCATCATTCGCACTGCTGTCTTTGGCTTTGAGACCTCGGAA
GCGAAGGGCCCCGATGGCATGGCCCTGCCCAGGCCCCGGGACCAGGCTGTCTTCCCCCAAAACGGGCTGGTGGTC
AGCAGTGTGGACGTGCAGTCAGTGGAGCCTGTGGATCAGAGGACCCGGGACGCCCTGCAACGCAGCGTCCAGCTG
GCCATCGAGATCACCACCAACTCCCAGGAAGCGGCGGCCAAGCATGAGGCTCAGAGACTGGAGCAGGAAGCCCGC
GGCCGGCTTGAGCGGCAGAAGATCCTGGACCAGTCAGAAGCCGAGAAAGCTCGCAAGGAACTTTTGGAGCTGGAG
GCTCTGAGCATGGCCGTGGAGAGCACCGGGACTGCCAAGGCGGAGGCCGAGTCCCGTGCGGAGGCAGCCCGGATT
GAGGGAGAAGGGTCCGTGCTGCAGGCCAAGCTAAAAGCACAGGCCTTGGCCATTGAAACGGAGGCTGAGCTCCAG
AGGGTCCAGAAGGTCCGAGAGCTGGAACTGGTCTATGCCCGGGCCCAGCTGGAGCTGGAGGTGAGCAAGGCTCAG
CAGCTGGCTGAGGTGGAGGTGAAGAAGTTCAAGCAGATGACAGAGGCCATAGGCCCCAGCACCATCAGGGACCTT
GCTGTGGCTGGGCCTGAGATGCAGGTAAAACTGCTCCAGTCCCTGGGCCTGAAATCAACCCTCATCACCGATGGC
TCCACTCCCATCAACCTCTTCAACACAGCCTTTGGGCTGCTGGGGATGGGGCCCGAGGGTCAGCCCCTGGGCAGA
AGGGTGGCCAGTGGGCCCAGCCCTGGGGAGGGGATATCCCCCCAGTCTGCTCAGGCCCCTCAAGCTCCTGGAGAC
AACCACGTGGTGCCTGTACTGCGCTAACTCCTGATTAATACAATGGAAGTTTCTGGGCAAAAAAAAAAAAAAAAA
GTTTCCA
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# FIGURE 4499

MATEEFIIRIPPYHYIHVLDQNSNVSRVEVGPKTYIRQDNERVLFAPMRMVTVPPRHYCTVANPVSRDAQGLVLF
DVTGQVRLRHADLEIRLAQDPFPLYPGEVLEKDITPLQVVLPNTALHLKALLDFEDKDGDKVVAGDEWLFEGPGT
YIPRKEVEVVEIIQATIIRQNQALRLRARKECWDRDGKERVTGEEWLVTTVGAYLPAVFEEVLDLVDAVILTEKT
ALHLRARRNFRDFRGVSRRTGEEWLVTVQDTEAHVPDVHEEVLGVVPITTLGPHNYCVILDPVGPDGKNQLGQKR
VVKGEKSFFLQPGEQLEQGIQDVYVLSEQQGLLLRALQPLEEGEDEEKVSHQAGDHWLIRGPLEYVPSAKVEVVE
ERQAIPLDENEGIYVQDVKTGKVRAVIGSTYMLTQDEVLWEKELPPGVEELLNKGQDPLADRGEKDTAKSLQPLA
PRNKTRVVSYRVPHNAAVQVYDYREKRARVVFGPELVSLGPEEQFTVLSLSAGRPKRPHARRALCLLLGPDFFTD
VITIETADHARLQLQLAYNWHFEVNDRKDPQETAKLFSVPDFVGDACKAIASRVRGAVASVTFDDFHKNSARIIR
TAVFGFETSEAKGPDGMALPRPRDQAVFPQNGLVVSSVDVQSVEPVDQRTRDALQRSVQLAIEITTNSQEAAAKH
EAQRLEQEARGRLERQKILDQSEAEKARKELLELEALSMAVESTGTAKAEAESRAEAARIEGEGSVLQAKLKAQA
LAIETEAELQRVQKVRELELVYARAQLELEVSKAQQLAEVEVKKFKQMTEAIGPSTIRDLAVAGPEMQVKLLQSL
GLKSTLITDGSTPINLFNTAFGLLGMGPEGQPLGRRVASGPSPGEGISPQSAQAPQAPGDNHVVPVLR

# FIGURE 4500

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AAAGGTTCCCCATCTGAGGCGTTTGTTGCAGCTACCTGCACTTCTAGATTCATCTTCTTGTGAGCCCTGGGCTTA
GGAGTCACCATGGCAACTGAAGAGTTCATCATCCGCATCCCCCCATACCACTATATCCATGTGCTGGACCAGAAC
AGCAACGTGTCCCGTGTGGAGGTCGGGCCAAAGACCTACATCCGGCAGGACAATGAGAGGGTACTGTTTGCCCCC
ATGCGCATGGTGACCGTCCCCCCACGTCACTACTGCACAGTGGCCAACCCTGTGTCTCGGGATGCCCAGGGCTTG
GTGCTGTTTGATGTCACAGGGCAAGTTCGGCTTCGCCACGCTGACCTCGAGATCCGGCTGGCCCAGGACCCCTTC
CCCCTGTACCCAGGGGAGGTGCTGGAAAAGGACATCACACCCCTGCAGGTGGTTCTGCCCAACACTGCCCTCCAT
CTAAAGGCGCTGCTTGATTTTGAGGATAAAGATGGAGACAAGGTGGTGGCAGGAGATGAGTGGCTTTTCGAGGGA
CCTGGCACGTACATCCCCCGGAAGGAAGTGGAGGTCGTGGAGATCATTCAGGCCACCATCATCAGGCAGAACCAG
GCTCTGCGGCTCAGGGCCCGCAAGGAGTGCTGGGACCGGGACGGCAAGGAGAGGGTGACAGGGGAAGAATGGCTG
GTCACCACAGTAGGGGCGTACCTCCCAGCGGTGTTTGAGGAGGTTCTGGATTTGGTGGACGCCGTCATCCTTACG
GAAAAGACAGCCCTGCACCTCCGGGCTCGGCGGAACTTCCGGGACTTCAGGGGAGTGTCCCGCCGCACTGGGGAG
GAGTGGCTGGTAACAGTGCAGGACACAGAGGCCCACGTGCCAGATGTCCACGAGGAGGTGCTGGGGGTTGTGCCC
ATCACCACCCTGGGCCCCCACAACTACTGCGTGATTCTCGACCCTGTCGGACCGGATGGCAAGAATCAGCTGGGG
CAGAAGCGCGTGGTCAAGGGAGAGAAGTCTTTTTTCCTCCAGCCAGGAGAGCAGCTGGAACAAGGCATCCAGGAT
GTGTATGTGCTGTCGGAGCAGCAGGGGCTGCTGCTGAGGGCCCTGCAGCCCCTGGAGGAGGGGGAGGATGAGGAG
AAGGTCTCACACCAGGCTGGGGACCACTGGCTCATCCGCGGGACCCCTGGAGTATGTGCCATCTGCCAAAGTGGAG
GTGGTGGAGGAGCGCCAGGCCATCCCTCTAGACGAGAACGAGGGCATCTATGTGCAGGATGTCAAGACCGGAAAG
GTGCGCGCTGTGATTGGAAGCACCTACATGCTGACCCAGGACGAAGTCCTGTGGGAGAAAGAGCTGCCTCCCGGG
GTGGAGGAGCTGCTGAACAAGGGGCAGGACCCTCTGGCAGACAGGGGTGAGAAGGACACAGCTAAGAGCCTCCAG
CCCCTTGGCGCCCCGGAACAAGACCCGTGTGGTCAGCTACCGCGTGCCCCACAACGCTGCGGTGCAGGTGTACGAC
TACCGAGAGAAGCGAGCCCGCGTGGTCTTCGGGCCTGAGCTGGTGTCGCTGGGTCCTGAGGAGCAGTTCACAGTG
TTGTCCCTCTCAGCTGGGCGGCCCAAGCGTCCCCATGCCCGCCGTGCGCTCTGCCTGCTGCTGGGGCCTGACTTC
TTCACAGACGTCATCACCATCGAAACGGCGGATCATGCCAGGCTGCAACTGCAGCTGGCCTACAACTGGCACTTT
GAGGTGAATGACCGGAAGGACCCCCAAGAGACGGCCAAGCTCTTTTCAGTGCCAGACTTTGTAGGTGATGCCTGC
AAAGCCATCGCATCCCGGGTGCGGGGGGCCGTGGCCTCTGTCACTTTCGATGACTTCCATAAGAACTCAGCCCGC
ATCATTCGCACTGCTGTCTTTGGCTTTGAGACCTCGGAAGCGAAGGGCCCCGATGGCATGGCCCTGCCCAGGCCC
CGGGACCAGGCTGTCTTCCCCCAAAACGGGCTGGTGGTCAGCAGTGTGGACGTGCAGTCAGTGGAGCCTGTGGAT
CAGAGGACCCGGGACGCCCTGCAACGCAGCGTCCAGCTGGCCATCGAGATCACCACCAACTCCCAGGAAGCGGCG
GCCAAGCATGAGGCTCAGAGACTGGAGCAGGAAGCCCGCGGCCGGCTTGAGCGGCAGAAGATCCTGGACCAGTCA
GAAGCCGAGAAAGCTCGCAAGGAACTTTTGGAGCTGGAGGCTCTGAGCATGGCCGTGGAGAGCACCGGGACTGCC
AAGGCGGAGGCCGAGTCCCGTGCGGAGGCAGCCCGGATTGAGGGAGAAGGGTCCGTGCTGCAGGCCAAGCTAAAA
GCACAGGCCTTGGCCATTGAAACGGAGGCTGAGCTCCAGAGGGTCCAGAAGGTCCGAGAGCTGGAACTGGTCTAT
GCCCGGGCCCAGCTGGAGCTGGAGGTGAGCAAGGCTCAGCAGCTGGCTGAGGTGGAGGTGAAGAAGTTCAAGCAG
ATGACAGAGGCCATAGGCCCCAGCACCATCAGGGACCTTGCTGTGGCTGGGCCTGAGATGCAGGTAAAACTGCTC
CAGTCCCTGGGGCCTGAAATCAACCCTCATCACCGATGGCTCCACTCCCATCAACCTCTTCAACACAGCCTTTGGG
CTGCTGGGGATGGGGCCCGAGGGTCAGCCCCTGGGCAGAAGGGTGGCCAGTGGGCCCAGCCCTGGGGAGGGGATA
TCCCCCCAGTCTGCTCAGGCCCCTCAAGCTCCTGGAGACAACCACGTGGTGCCTGTACTGCGCTAACTCCTGATT
AATACAATGGAAGTTTCTGGGCAAAAAAAAAAAAAAAAAAGTTTCCA
```

## FIGURE 4501

MATEEFIIRIPPYHYIHVLDQNSNVSRVEVGPKTYIRQDNERVLFAPMRMVTVPPRHYCTVANPVSRDAQGLVLF
DVTGQVRLRHADLEIRLAQDPFPLYPGEVLEKDITPLQVVLPNTALHLKALLDFEDKDGDKVVAGDEWLFEGPGT
YIPRKEVEVVEIIQATIIRQNQALRLRARKECWDRDGKERVTGEEWLVTTVGAYLPAVFEEVLDLVDAVILTEKT
ALHLRARRNFRDFRGVSRRTGEEWLVTVQDTEAHVPDVHEEVLGVVPITTLGPHNYCVILDPVGPDGKNQLGQKR
VVKGEKSFFLQPGEQLEQGIQDVYVLSEQQGLLLRALQPLEEGEDEEKVSHQAGDHWLIRGPLEYVPSAKVEVVE
ERQAIPLDENEGIYVQDVKTGKVRAVIGSTYMLTQDEVLWEKELPPGVEELLNKGQDPLADRGEKDTAKSLQPLA
PRNKTRVVSYRVPHNAAVQVYDYREKRARVVFGPELVSLGPEEQFTVLSLSAGRPKRPHARRALCLLLGPDFFTD
VITIETADHARLQLQLAYNWHFEVNDRKDPQETAKLFSVPDFVGDACKAIASRVRGAVASVTFDDFHKNSARIIR
TAVFGFETSEAKGPDGMALPRPRDQAVFPQNGLVVSSVDVQSVEPVDQRTRDALQRSVQLAIEITTNSQEAAAKH
EAQRLEQEARGRLERQKILDQSEAEKARKELLELEALSMAVESTGTAKAEAESRAEAARIEGEGSVLQAKLKAQA
LAIETEAELQRVQKVRELELVYARAQLELEVSKAQQLAEVEVKKFKQMTEAIGPSTIRDLAVAGPEMQVKLLQSL
GLKSTLITDGSTPINLFNTAFGLLGMGPEGQPLGRRVASGPSPGEGISPQSAQAPQAPGDNHVVPVLR

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# FIGURE 4502

GGCACGAGGCTGCCCTAGTGGCCT**ATG**TCCCTTGCTCGGGGCCATGGAGACACTGCGGCCAGTACGGCGGCGCCT
CTGTCTGAAGAAGGGGAAGTGACCTCCGGCCTCCAGGCTCTGGCCGTGGAGGATACCGGAGGCCCCTCTGCCTCG
GCCGGTAAGGCCGAGGACGAGGGGGAAGGAGGCCGAGAGGAGACCGAGCGTGAGGGGTCCGGGGGCGAGGAGGCG
CAGGGAGAAGTCCCCAGCGCTGGGGGAGAAGAGCCTGCCGAGGAGGACTCCGAGGACTGGTGCGTGCCCTGCAGC
GACGAGGAGGTGGAGCTGCCTGCGGATGGGCAGCCCTGGATGCCCCCGCCCTCCGAAATCCAGCGGCTCTATGAA
CTGCTGGCTGCCCACGGTACTCTGGAGCTGCAAGCCGAGATCCTGCCCCGCCGGCCTCCCACGCCGGAGGCCCAG
AGCGAAGAGGAGAGATCCGATGAGGAGCCGGAGGCCAAAGAAGAGGAAGAGGAAAAAACCACACATGCCCACGGAA
TTTGATTTTGATGATGAGCCAGTGACACCAAAGGACTCCCTGATTGACCGGAGACGCACCCCAGGAAGCTCAGCC
CGGAGCCAGAAACGGGAGGCCCGCCTGGACAAGGTGCTGTCGGACATGAAGAGACACAAGAAGCTGGAGGAGCAG
ATCCTTCGTACCGGGAGGGACCTCTTCAGCCTGGACTCGGAGGACCCCAGCCCCGCCAGCCCCCCACTCCGATCC
TCCGGGAGTAGTCTCTTCCCTCGGCAGCGGAAATAC**TGA**TTCCCACTGCTCCTGCCTCTAGGGTGCAGTGTCCGT
ACCTGCTGGAGCCTGGGCCCTCCTTCCCCAGCCCAGACATTGAGAAACTTGGGAAGAAGAGAGAAACCTCAAGCT
CCCAAACAGCACGTTGCGGGAAAGAGGAAGAGAGAGTGTGAGTGTGTGTGTGTGTTTTTTCTATTGAACACCTGT
AGAGTGTGTGTGTGTGTTTTCTATTGAACACCTATAGAGAGAGTGTGTGTGTTTTCTATTGAACATCTATATAGA
GAGAGTGTGTGAGTGTGTGTTTTCTATTGAACACCTATTCAGAGACCTGGACTGAATTTTCTGAGTCTGAAATAA
AAGATGCAGAGCTATCATCTCTTAAAAAAAAAAAAAAAAAAAAAAAAAA

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## FIGURE 4503

MSLARGHGDTAASTAAPLSEEGEVTSGLQALAVEDTGGPSASAGKAEDEGEGGREETEREGSGGEEAQGEVPSAG
GEEPAEEDSEDWCVPCSDEEVELPADGQPWMPPPSEIQRLYELLAAHGTLELQAEILPRRPPTPEAQSEEERSDE
EPEAKEEEEEKPHMPTEFDFDDEPVTPKDSLIDRRRTPGSSARSQKREARLDKVLSDMKRHKKLEEQILRTGRDL
FSLDSEDPSPASPPLRSSGSSLFPRQRKY

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# FIGURE 4504

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TGCCGCCGCCTCTACGGTGGACACAGCGGCCCTGAAGCAGCCTCCGGCGCCCCCTCCGCCACCCCCGCCAGTGTC
GGCGCCCGCGGCCGAGGCCGCGCCCCCCGCCTCCGCCGCCACTATCGCCGCGTCGGCGGCCACCGCCGTCGTAGC
CCCAACCTCGACGGTCGCCGTGGCCCCGGTCGCGTCTGCCTTGGAGAAGAAGACAAAGAGCAAGGGGCCCTACAT
CTGCGCTCTGTGCGCCAAGGAGTTCAAGAACGGCTACAATCTCCGGAGGCACGAAGCCATCCACACGGGAGCCAA
GGCCGGCCGGGTCCCCTCGGGTGCTATGAAGATGCCGACCATGGTGCCCCTGAGCCTCCTGAGCGTGCCCCAGCT
GAGCGGAGCCGGCGGGGGAGGGGGAGAGGCGGGTGCCGGCGGCGGCGCTGCCGCAGTGGCCGCCGGTGGCGTGGT
GACCACGACCGCCTCGGGGAAGCGCATCCGGAAGAACCATGCCTGCGAGATGTGTGGCAAGGCCTTCCGCGACGT
CTACCACCTGAACCGACACAAGCTGTCGCACTCGGACGAGAAGCCCTACCAGTGCCCGGTGTGCCAGCAGCGCTT
CAAGCGCAAGGACCGCATGAGCTACCACGTGCGCTCACATGACGGCGCTGTGCACAAGCCCTACAACTGCTCCCA
CTGTGGCAAGAGCTTCTCCCGGCCGGATCACCTCAACAGTCACGTCAGACAAGTGCACTCAACAGAACGGCCCTT
CAAATGTGAGAAATGTGAGGCAGCTTTCGCCACGAAGGATCGGCTGCGGGCGCACACAGTACGACACGAGGAGAA
AGTGCCATGTCACGTGTGTGGCAAGATGCTGAGCTCGGCTTATATTTCGGACCACATGAAGGTGCACAGCCAGGG
TCCTCACCATGTCTGTGAGCTCTGCAACAAAGGTACTGGTGAGGTTTGTCCAATGGCGGCGGCAGCGGCAGCGGC
GGCAGCGGCAGCAGCGGCAGCAGTAGCAGCCCCTCCCACAGCTGTGGGCTCCCTCTCGGGGGCGGAGGGGGTGCC
TGTGAGCTCTCAGCCACTTCCCTCCCAACCCTGGTGAGCTCCAAGTTGGTTGCGGGGGAGAGGGGAGAATGGAGT
AGAGTCCCTTGGTACAAGCTCCTCTCCCCCCTCTTTTCCCACCAACTCCTATTTCCCTACCAACCAAGGAGCCTC
CAGAAGGAAAGGAGGAAGAAATGTTTTCTTAGGGGAATTC
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**FIGURE 4505**

TCGCCGTGGCCCCGGTCGCGTCTGCCTTGGAGAAGAAGACAAAGAGCAAGGGGCCCTACATCTGCGCTCTGTGCG
CCAAGGAGTTCAAGAACGGCTACAATCTCCGGAGGCACGAAGCCATCCACACGGGAGCCAAGGCCGGCCGGGTCC
CCTCGGGTGCTATGAAGATGCCGACCATGGTGCCCCTGAGCCTCCTGAGCGTGCCCCAGCTGAGCGGAGCCGGCG
GGGGAGGGGGAGAGGCGGGTGCCGGCGGCGGCGCTGCCGCAGTGGCCGCCGGTGGCGTGGTGACCACGACCGCCT
CGGGGAAGCGCATCCGGAAGAACCATGCCTGCGAGATGTGTGGCAAGGCCTTCCGCGACGTCTACCACCTGAACC
GACACAAGCTGTCGCACTCGGACGAGAAGCCCTACCAGTGCCCGGTGTGCCAGCAGCGCTTCAAGCGCAAGGACC
GCATGAGCTACCACGTGCGCTCACATGACGGCGCTGTGCACAAGCCCTACAACTGCTCCCACTGTGGCAAGAGCT
TCTCCCGGCCGGATCACCTCAACAGTCACGTCAGACAAGTGCACTCAACAGAACGGCCCTTCAAATGTGAGAAAT
GTGAGGCAGCTTTCGCCACGAAGGATCGGCTGCGGGCGCACACAGTACGACACGAGGAGAAAGTGCCATGTCACG
TGTGTGGCAAGATGCTGAGCTCGGCTTATATTTCGGACCACATGAAGGTGCACAGCCAGGGTCCTCACCATGTCT
GTGAGCTCTGCAACAAAGGCTTCACCACGGCAGCATACCTGCGCATCCACGCGGTGAAGGACCACGGGCTCCAGG
CCCCGCGGGCTGACCGCATCCTGTGCAAGCTGTGCAGCGTGCACTGCAAGACCCCTGCCCAGCTGGCCGGCCACA
TGCAGACCCATCTGGGGGGGGCCGCCCCCCTGTCCCGGGAGACGCCCCCCAGCCACAGCCCACCTGCTGAGGGGG
ACCCCCGCACCCACCAGGTACTGGTGAGGTTTGTCCAATGGCGGCGGCAGCGGCAGCGGCGGCAGCGGCAGCAGC
GGCAGCAGTAGCAGCCCCTCCCACAGCTGTGGGCTCCCTCTCGGGGGCGGAGGGGGTGCCTGTGAGCTCTCAGCC
ACTTCCCTCCCAACCCTGGTGAGCTCCAAGTTGGTTGCGGGGGAGAGGGGGAGAATGGAGTAGAGTCCCTTGGTAC
AAGCTCCTCTCCCCCCTCTTTTCCCACCAACTCCTATTTCCCTACCAACCAAGGAGCCTCCAGAAGGAAAGGAGG
AAGAAATGTTTTCTTAGGGGAATTCGCTAGGTTTTAACGATTTGTTTCTCCTGCTCCTCTTCTGTCAGACCTGAC
CCCACACAAACCTGTCCCCTCGGTTGTGTTGAAGTCCCCTGGACAGTGGGCAGGGGTGGCAGAGGACACGAGCAG
CCACTGCCCGTACCCCCTCTCCTCTCTGTAAGCCCATGCCCTGTCTTCCCAGGGACTTGTGAGCCTCTTCCCTCG
ACGGTCCTCTTCTCTCCTTCCAGTCCTCTCCCCCTGCTGTCTGCAGCCCCTCCCCGGGGAGTTGGTGCTTTCTTT
TCCTTTTTTTTTTTTTTCCAGGGGGGAGGGAGGAGAGGAAGGAGGGGGATCAGAGCTGTCCCAAAGAGGGAAAGCG
GTGAGGTTTGAGGAGGGGCAGAAGCAGGGCCGGCAAAGGTTGTACCTTCATAAGGTGGTATGGGGGGTTGGGGTC
AGGCCCTGAACATCGTCCTACTTGAGAATCTGTCAGGGGAAAAAGTCAAGGGGAGCAGGAGGAAGAGCCAGGAGG
GCCAGAGGCAGAGAAGAGATGGAGTCTTAGGGGCCAGGGTGAGCGAGGGGTCCAGGGCCTAGAGGTGCTTCCTGG
GGGCGGGGGAATGCAGCCAGTGTCCCCCTCCCCTCTTCCACCCCAGCTCCAGCCCTGGTCTTGTCTTTTCATCCC
TCTTCCCCACGACAGAAGAAGTTGTGGCCCTGGCCATGTCATCGTGTTCCTGTGTCCCCTGCATGTACCCCACCC
TCCACCCCTTCCTTTTGCGCGGACCCCATTACAATAAATTTTAAATA

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# FIGURE 4506

MKMPTMVPLSLLSVPQLSGAGGGGGEAGAGGGAAAVAAGGVVTTTASGKRIRKNHACEMCGKAFRDVYHLNRHKL
SHSDEKPYQCPVCQQRFKRKDRMSYHVRSHDGAVHKPYNCSHCGKSFSRPDHLNSHVRQVHSTERPFKCEKCEAA
FATKDRLRAHTVRHEEKVPCHVCGKMLSSAYISDHMKVHSQGPHHVCELCNKGFTTAAYLRIHAVKDHGLQAPRA
DRILCKLCSVHCKTPAQLAGHMQTHLGGAAPLSRETPPSHSPPAEGDPRTHQVLVRFVQWRRQRQRRQRQQRQQ

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# FIGURE 4507

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GGGCGGGCCCAAGGAGGGAGTGGAATGGCCGCGGGCGGCTCGACGCAGCAGAGGCGACGCGAGATGGCGGCAGCT
TCAGCGGCGGCGATCTCAGGAGCTGGTCGCTGTCGGCTAAGCAAGATTGGAGCTACTCGTCGTCCACCTCCAGCT
CGCGTAAGGGTGGCTGTGCGACTGCGGCCATTTGTGGATGGAACAGCGGGAGCAAGTGATCCCCCCTGTGTGCGG
GGCATGGACAGCTGCTCTCTAGAGATTGCTAACTGGAGGAACCACCAGGAGACTCTCAAATACCAGTTTGATGCC
TTCTATGGGGAGAGGAGTACTCAGCAGGACATCTATGCAGGTTCAGTGCAGCCCATCCTAAGGCACTTGCTGGAA
GGGCAGAATGCCAGTGTGCTTGCCTATGGACCCACAGGAGCTGGGAAGACGCACACAATGCTGGGCAGCCCAGAG
CAACCTGGGGTGATCCCGCGGGCTCTCATGGACCTCCTGCAGCTCACAAGGGAGGAGGGTGCCGAGGGCCGGCCA
TGGGCCCTTTCTGTCACCATGTCTTACCTAGAGATCTACCAGGAGAAGGTATTAGACCTCCTGGACCCTGCTTCG
GGAGACCTGGTAATCCGAGAAGACTGCCGGGGGAATATCCTGATTCCGGGTCTCTCCCAGAAGCCCATCAGTAGC
TTTGCTGATTTTGAGCGGCACTTCCTGCCAGCCAGTCGAAATCGGACTGTAGGAGCCACCCGGCTCAACCAGCGC
TCCTCCCGCAGTCATGCTGTGCTCCTGGTCAAGGTGGACCAGCGGGAACGTTTGGCCCCATTTCGCCAGCGAGAG
GGAAAACTCTACCTGATTGACTTGGCTGGGTCAGAGGACAACCGGCGCACAGGCAACAAGGGCCTTCGGCTAAAA
GAGAGTGGAGCCATCAACACCTCCCTGTTTGTCCTGGGCAAAGTGGTAGATGCGCTGAATCAGGGCCTCCCTCGT
GTACCTTATCGGGACAGCAAGCTCACTCGCCTATTGCAGGACTCTCTGGGTGGCTCAGCCCACAGTATCCTTATT
GCCAACATTGCCCCTGAGAGACGCTTCTACCTAGACACAGTCTCCGCACTCAACTTTGCTGCCAGGTCCAAGGAG
GTGATCAATCGGCCTTTTACCAATGAGAGCCTGCAGCCTCATGCCTTGGGACCTGTTAAGCTGTCTCAGAAAGAA
TTGCTTGGTCCACCAGAGGCAAAGAGAGCCCGAGGCCCTGAGGAAGAGGAGATTGGGAGCCCTGAGCCCATGGCA
GCTCCAGCCTCTGCCTCCCAGAAACTCAGCCCCCTACAGAAGCTAAGCAGCATGGACCCGGCCATGCTGGAGCGC
CTCCTCAGCTTGGACCGTCTGCTTGCCTCCCAGGGGAGCCAGGGGGCCCCTCTGTTGAGTACCCCAAAGCGAGAG
CGGATGGTGCTAATGAAGACAGTAGAAGAGAAGGACCTAGAGATTGAGAGGCTTAAGACGAAGCAAAAAGAACTG
GAGGCCAAGATGTTGGCCCAGAAGGCTGAGGAAAAGGAGAACCATTGTCCCACAATGCTCCGGCCCCTTTCACAT
CGCACAGTCACAGGGGCAAAGCCCCTGAAAAAGGCTGTGGTGATGCCCCTACAGCTAATTCAGGAGCAGGCAGCA
TCCCCAAATGCCGAGATCCACATCCTGAAGAATAAAGGCCGGAAGAGAAAGCTGGAGTCCCTGGATGCCCTAGAG
CCTGAGGAGAAGGCTGAGGACTGCTGGGAGCTACAGATCAGCCCGGAGCTACTGGCTCATGGGCGCCAAAAAAATA
CTGGATCTGCTGAACGAAGGCTCAGCCCGAGATCTCCGCAGTCTTCAGCGCATTGGCCCGAAGAAGGCCCAGCTA
ATCGTGGGCTGGCGGGAGCTCCACGGCCCCTTCAGCCAGGTGGAGGACCTGGAACGCGTGGAGGGCATAACGGGG
AAACAGATGGAGTCCTTCCTGAAGGCAAACATCCTGGGTCTCGCCGCCGGCCAGCGCTGTGGCGCCTCCTGACCG
TCGTCTCCTCACTCCGCCTTTTCAAATTTTTGTATAACCCCGTGTTGTGTAAATACAGTTTTTGCTCCGGTG
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## FIGURE 4508

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MAAGGSTQQRRREMAAASAAAISGAGRCRLSKIGATRRPPPARVRVAVRLRPFVDGTAGASDPPCVRGMDSCSLE
IANWRNHQETLKYQFDAFYGERSTQQDIYAGSVQPILRHLLEGQNASVLAYGPTGAGKTHTMLGSPEQPGVIPRA
LMDLLQLTREEGAEGRPWALSVTMSYLEIYQEKVLDLLDPASGDLVIREDCRGNILIPGLSQKPISSFADFERHF
LPASRNRTVGATRLNQRSSRSHAVLLVKVDQRERLAPFRQREGKLYLIDLAGSEDNRRTGNKGLRLKESGAINTS
LFVLGKVVDALNQGLPRVPYRDSKLTRLLQDSLGGSAHSILIANIAPERRFYLDTVSALNFAARSKEVINRPFTN
ESLQPHALGPVKLSQKELLGPPEAKRARGPEEEEIGSPEPMAAPASASQKLSPLQKLSSMDPAMLERLLSLDRLL
ASQGSQGAPLLSTPKRERMVLMKTVEEKDLEIERLKTKQKELEAKMLAQKAEEKENHCPTMLRPLSHRTVTGAKP
LKKAVVMPLQLIQEQAASPNAEIHILKNKGRKRKLESLDALEPEEKAEDCWELQISPELLAHGRQKILDLLNEGS
ARDLRSLQRIGPKKAQLIVGWRELHGPFSQVEDLERVEGITGKQMESFLKANILGLAAGQRCGAS
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# FIGURE 4509

GTCCTGAGCAGCCAACACACCAGCCCAGACAGCTGCAAGTCACC**ATG**GACGCTGAAGGCCTGGCGCTGCTGCTGC
CGCCCGTCACCCTGGCAGCCCTGGTGGACAGCTGGCTCCGAGAGGACTGCCCAGGGCTCAACTACGCAGCCTTGG
TCAGCGGGGCAGGCCCCTCGCAGGCGGCGCTGTGGGCCAAATCCCCTGGGGTACTGGCAGGGCAGCCTTTCTTCG
ATGCCATATTTACCCAACTCAACTGCCAAGTCTCCTGGTTCCTCCCCGAGGGATCGAAGCTGGTGCCGGTGGCCA
GAGTGGCCGAGGTCCGGGGCCCTGCCCACTGCCTGCTGCTGGGGGAACGGGTGGCCCTCAACACGCTGGCCCGCT
GCAGTGGCATTGCCAGTGCTGCCGCCGCTGCAGTGGAGGCCGCCAGGGGGGCCGGCTGGACTGGGCACGTGGCAG
GCACGAGGAAGACCACGCCAGGCTTCCGGCTGGTGGAGAAGTATGGGCTCCTGGTGGGCGGGGCCGCCTCGCACC
GCTACGACCTGGGAGGGCTGGTGATGGTGAAGGATAACCATGTGGTGGCCGCCGGTGGCGTGGAGAAGGCGGTGC
GGGCGGCCAGACAGGCGGCTGACTTCACTCTGAAGGTGGAAGTGGAATGCAGCAGCCTGCAGGAGGCCGTGCAGG
CAGCTGAGGCTGGTGCCGACCTTGTCCTGCTGGACAACTTCAAGCCAGAGGAGCTGCACCCCACGGCCACCGTGC
TGAAGGCCCAGTTCCCGAGTGTGGCTGTGGAAGCCAGTGGGGGCATCACCCTGGACAACCTCCCCCAGTTCTGCG
GGCCGCACATAGACGTCATCTCCATGGGGGATGCTGACCCAGGCGGCCCCAGCCCTTGATTTCTCCCTCAAGCTGT
TTGCCAAAGAGGTGGCTCCAGTGCCCAAAATCCAC**TAG**TCCTAAACCGGAAGAGGATGACACCGGCCATGGGTTA
ACGTGGCTCCTCAGGACCCTCTGGGTCACACATCTTTAGGGTCAGTGGCCAATGGGGCACATTTGGCACTAGCTT
GAGCCCAACTCTGGCTCTGCCACCTGCTGCTCCTGTGACCTGTCAGGGCTGACTTCACCTCTGCTCATCTCAGTT
TCCTAATCTGTAAAATGGGTCTAATAAAGGATCAACC

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## FIGURE 4510

MDAEGLALLLPPVTLAALVDSWLREDCPGLNYAALVSGAGPSQAALWAKSPGVLAGQPFFDAIFTQLNCQVSWFL
PEGSKLVPVARVAEVRGPAHCLLLGERVALNTLARCSGIASAAAAAVEAARGAGWTGHVAGTRKTTPGFRLVEKY
GLLVGGAASHRYDLGGLVMVKDNHVVAAGGVEKAVRAARQAADFTLKVEVECSSLQEAVQAAEAGADLVLLDNFK
PEELHPTATVLKAQFPSVAVEASGGITLDNLPQFCGPHIDVISMGMLTQAAPALDFSLKLFAKEVAPVPKIH

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# FIGURE 4511

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GCCTCGGGAGGTGGTGGAGTGACCTGGCCCCAGTGCTGCGTCCTTATCAGCCGAGCCGGTCCCAGCTCTTGCTCC
TGCCTGTTTGCCTGGAAATGGCCACGCTTCTCCTTCTCCTTGGGGTGCTGGTGGTAAGCCCAGACGCTCTGGGGA
GCACAACAGCAGTGCAGACACCCACCTCCGGAGAGCCTTTGGTCTCTACTAGCGAGCCCCTGAGCTCAAAGATGT
ACACCACTTCAATAACAAGTGACCCTAAGGCCGACAGCACTGGGGACCAGACCTCAGCCCTACCTCCCTCAACTT
CCATCAATGAGGGATCCCCTCTTTGGACTTCCATTGGTGCCAGCACTGGTTCCCCTTTACCTGAGCCAACAACCT
ACCAGGAAGTTTCCATCAAGATGTCATCAGTGCCCCAGGAAACCCCTCATGCAACCAGTCATCCTGCTGTTCCCA
TAACAGCAAACTCTCTAGGATCCCACACCGTGACAGGTGGAACCATAACAACGAACTCTCCAGAAACCTCCAGTA
GGACCAGTGGAGCCCCTGTTACCACGGCAGCTAGCTCTCTGGAGACCTCCAGAGGCACCTCTGGACCCCCTCTTA
CCATGGCAACTGTCTCTCTGGAGACTTCCAAAGGCACCTCTGGACCCCCTGTTACCATGGCAACTGACTCTCTGG
AGACCTCCACTGGGACCACTGGACCCCCTGTTACCATGACAACTGGCTCTCTGGAGCCCTCCAGCGGGGCCAGTG
GACCCCAGGTCTCTAGCGTAAAACTATCTACAATGATGTCTCCAACGACCTCCACCAACGCAAGCACTGTGCCCT
TCCGGAACCCAGATGAGAACTCACGAGGCATGCTGCCAGTGGCTGTGCTTGTGGCCCTGCTGGCGGTCATAGTCC
TCGTGGCTCTGCTCCTGCTGTGGCGCCGGCGGCAGAAGCGGCGGACTGGGGCCCTCGTGCTGAGCAGAGGTGGCA
AGCGTAACGGGGTGGTGGACGCCTGGGCTGGGCCAGCCCAGGTCCCTGAGGAGGGGGCCGTGACAGTGACCGTGG
GAGGGTCCGGGGGCGACAAGGGCTCTGGGTTCCCCGATGGGGAGGGGTCTAGCCGTCGGCCCACGCTCACCACTT
TCTTTGGCAGACGGAAGTCTCGCCAGGGCTCCCTGGCGATGGAGGAGCTGAAGTCTGGGTCAGGCCCCAGCCTCA
AAGGGGAGGAGGAGCCACTGGTGGCCAGTGAGGATGGGGCTGTGGACGCCCCAGCTCCTGATGAGCCCGAAGGGG
GAGACGGGGCTGCCCCTTAAGTGTCGGTGAATAGTGAGGCTGGAGGCCGGAATCTCAGCCAGCCTCCAGCACTT
CCCTCTCACCATCCCACTGCCCCCTCGCTCCCATGTTTCCACCCGGCACCCTGATCCTCACCCGAATCTCCTTTT
TTTTTTTCTTTTGAGACAGAGTTTCGCTTTGTCGCCCAGGCTGGAGTGCAATGCACGATCTCAGTTCACTGCAAC
CTCTGCCTCCTAAGTTCAGGCGATTCTCCTGCCTCAGCTTCCCGAGTAACTGAGATTACAGGCACCCACCACCAT
GCCCAGCTGCTTTTTTGTATTTTTGGTAGAGATGGGGTTTCACCATGTTGGCTAGGCTGGTCTCAAACTCCTGAC
CTCAGGTGATCTACCTGCCTCAGCCTCCCAAAGTGCTGAGATTACAGACATGAGCCTCCGCGCCTTGCCTCCTCA
CCCACCTCTTCACTCTGAATCCTCATGAGGCTTCTCAGCCCTGGATTTCCTGCTGCCATCCTCACCCAGCACCCA
CAACTAGCGCCTGGGCAGGGCAGGGCTGGCACCTCTCAACGTCTGTGGACTGAATGAATAAACCCTCCTCATCCA
CCCC
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# FIGURE 4512

MATLLLLLGVLVVSPDALGSTTAVQTPTSGEPLVSTSEPLSSKMYTTSITSDPKADSTGDQTSALPPSTSINEGS
PLWTSIGASTGSPLPEPTTYQEVSIKMSSVPQETPHATSHPAVPITANSLGSHTVTGGTITTNSPETSSRTSGAP
VTTAASSLETSRGTSGPPLTMATVSLETSKGTSGPPVTMATDSLETSTGTTGPPVTMTTGSLEPSSGASGPQVSS
VKLSTMMSPTTSTNASTVPFRNPDENSRGMLPVAVLVALLAVIVLVALLLLWRRRQKRRTGALVLSRGGKRNGVV
DAWAGPAQVPEEGAVTVTVGGSGGDKGSGFPDGEGSSRRPTLTTFFGRRKSRQGSLAMEELKSGSGPSLKGEEEP
LVASEDGAVDAPAPDEPEGGDGAAP

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# FIGURE 4513

GGTAACTTCTTGATGTTGCCGTGGCATTTGTAAACTGTCATGGTGCTGGTAGGAGTGTAGCAGGGAGGATGATGG
GAGGTCAGTCTTGTCTCTATTTTGGTTTTGGTGGGTTTTGGCCAGCTCCTTCACTGCAACCTGTTTTATCAGCAA
GGTCTTTATGACTGGTATTTTGTGCTGACCTTCTATGTCATCCTGTGACTTAGAATGCCTTAACCATCAGGGAAT
GCAGCCCAGTAGTTTCAGCCTCATTTTTCCCGGCTCCTATTTAAGATGGAGTTGCTCTGGTTCACACACCTCTGA
CATGATCATTGCCCACTGCGGCTTCCACCTCCCGGGTTCAAGAGATCCTCCTGCCTCACCCTCCCAAGGTGCTGG
GACTACAGGTGTGTGCCACCACGCTCAGCTAATTTTTGTATTTTTTGTAGAGATGGTGTTTTTCCATGTTGCCCA
GGCTGGTCTCAAACTCCTGGGCTCAAGCAATCCTTCTGTCTCAGCCTCCCAAAGTACTGGGATTACAGGCATGTC
CCACCATGCCCAGACTAATATTTACTTTTAATCAGACTAAGATAGGGTTACTACTTGAGTTGCTATGGCTCCAGC
TGAAAGAAAGCCCGTGCAGTCATATCACGCGTAAACATTTGCTTTATGCTAAAAATATGGTGGACCTGGCATTAC
AGCTATTACAAATCTCCTAAGATGTCTCGGGTAGTGTATTAGTTACTTTTCATACTGCTATGAAGAAATACTGGA
AACTGGGTAATTTATAAAGAAAAAGAGGTTTAATGTACTCACAGTTCCACAAGGCTGGAGAGGCCTCAGAATCAT
GGTGGAAGGCAAGGAGCAAAAAGGTATGTCTTCCATGGCAGCAGGCAAGAGAGCACGTGCAGGGAAACTGCCCTT
TATAAAACCATCAGATTTAGTGAGATGTATTCACTATCACGAGAACAGTATGGGAAAAACCTGCCCCCATGATTC
GATTACCTCCTACCGGGTCCCTCCCACGACACATGGGGATTATGGGAACTACAATTCAAGATGAAATTTGGGTGG
GGACGCAGCCAAACCATATCGGGTAGCAACAACCTAGGGTCAGTTTTGCAGGTGGTAAAGCCATTTACCAAGATA
GTTGTAGGTAAAGAAGGGCAGATTTATTAGAGAAATTGTGAAAATATGTTGCAGTGGGCAGCTCAGCAGAGAAGG
GGCTACCTGCAAAGAGGCAAGGGCTGGAGGAAAGTTTTATAGGGTCCTGCTGAAGGGTGCTACGTGTGGAATGAG
GTCATTGTGCCCGCAGGTTGTTTGTGATTAGCTGTTTCTAACAATTGTTCATACAATAATTGTTCATTATTGTTC
TCAACTTGGGGCTCTCCCCAACCTGGGGACCCTTCCTTATTGTTGCTTACTTATCAGGTCTCCACATAAAGGTGT
GGAAACTTCATTCATTCATATCTTCAACACAAATTGTAGGTAGCCTGTTTTTTAAAACATTTATTCAACAAATAT
TTAGTCCAAGCCACTATTACTTATTACCTTCTCTACTATTGTATGGACTTTTAACTATCTCTGACACTATTCACT
ATTCTTCCACATTCTCTATTATTTATACCTATGGTAAAATTTGCCAGTTTGACCATACAACTAATACTCACAGGG
AATATATAGAGTCTAGAAGAAAATATACAGGTCCTTAAAGGCTGCCCTGCCAACAAAACCATAACGCAGGAACAA
ACATCACAACTATGCCAAATAATCAATCCTACAATGTCCAAAATTTTACTTTAAAACTGGAATTTCCAGACTTCC
TTTCTGCATTAACCAGTTTAACTAGACAGTAACGAAATATTCCTACTTTATGCTGTGATAGTTTGTTTATTTATT
TATTTATTTATTTATTTGAGACAGAGTTTCGCTCTTGTTGCAGTGAGCCAGGATCATGCCATTGCACTCCAGCCT
GGTCAACGGAGCGAGACTCCGCCTCATTAAAAAAAAAAAAAAAAAA

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# FIGURE 4514

CGGTCCTTCTCAACAGGCCTGTGCCCCGCGGGGTCCGCCTCCTCTGGGACGCCTTCCTCCCGGCACAGAAGGCCT
CCCCCTCTCACCAGGGCCCTCGCCCGCTGGTCCGCCAGGCCCCGCCTTTTTTGCGGCCCCCATTGTGCTGCTGGA
CCCGACGAGCAGTGTTGACAGTGAACCCCACGTAGACGCGGCCCCGGTACCGGGGGTTCAGGCAGTAGAGCAGGT
AGACGCCGAAAAAGCGCCCTGGCCTCGCCGCGACCCCCGCGGGACCCATCGGGCCTTGGGGTTCGGGAACCACAG
CAGGGGGTTGATTGCCGTGACCTAGGGTCCAGGGGAGGGCTGGATCGCTAGGGCTGCAGGGTGCTTGCTTCGGAA
CAAGCTCTCGGGGACTATCCGGAGGCAGCCTGCAGGAAGCCGTAGCGCCGGTACGTGCCCCTCTCCTGTCTGGAG
GCGGGTGTAGAAGTCCGACCGCGGAAGCCAGACTGCTGTCCAGTCGGCGAGCGCGTACCATTCAGCATCGGCTCC
GCCCGAGTCCCACCTTCCTCAGGCTCTGATTGGCTGACAC**ATG**GCAAGCGCGAAAAGCCTGGACCGCTGGAAAGC
CCGGCTGCTTGAGGGCGGAAGTACTGCGTTGACGTACGCCTTAGTAAGGGCGGAAGTGAGTTTTCCAGCGGAAGT
GGCTCCTGTAAGGCAGCAAGGTAGCGTGGCCGGCGCCCGAGCTGGGGTTGTGTCCCTGCTGGGCTGCCGTTCCAG
CTGGACTGCCGCCATGGAACTCAGCGCCGAATACCTCCGCGAGAAGCTGCAGCGGGACCTGGAGGCGGAGCATGT
GGAGGTGGAGGACACGACCCTCAACCGTTGCTCCTGTAGCTTCCGAGTCCTGGTGGTGTCGGCCAAGTTCGAGGG
GAAACCGCTGCTTCAGAGACACAGGCTGGTGAACGCGTGCCTAGCAGAAGAGCTCCCGCACATCCATGCCTTTGA
ACAGAAAACCCTGACCCCAGACCAGTGGGCACGTGAGCGACAGAAATGAGGGACTGGGATCTGCACAGCCATTAA
ATTATAAATCTGG

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# FIGURE 4515

MASAKSLDRWKARLLEGGSTALTYALVRAEVSFPAEVAPVRQQGSVAGARAGVVSLLGCRSSWTAAMELSAEYLR
EKLQRDLEAEHVLPSPGGVGQVRGETAASETQVLYRVMRCVTAANQVFFSEAVLTAANERVGVLLGSLDPSMTIH
CDMVITYGLDQLENCQTCGTDYIISVLNLLTLIVEQINTKLPSSFVEKLFIPSSKLLFLRYHKEKEVVAVARAVY
QAVLSLKNIPVLETAYKLILGEMTCALNNLLHSLQLPESCSEIKHEAFKNHVFNVDNAKFVVKFDLSALTTIGNA
KNSLIGVSL

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**FIGURE 4516**

TCAGCGGGCGAGTCCCCGGCTCCTCCAGCTCCTTCCTCCTCTTCCTCCTCCTCCACCTCCGGCTTTTGGGGG
ATCACTGTCCTCTCTCGGCAGCAGA**ATG**AGCCGGCAGGTGGTCCGCTCCAGCAAGTTCCGCCACGTGTTTGGACA
GCCGGCCAAGGCCGACCAGTGCTATGAAGATGTGCGCGTCTCACAGACCACCTGGGACAGTGGCTTCTGTGCTGT
CAACCCTAAGTTTGTGGCCCTGATCTGTGAGGCCAGCGGGGGAGGGGCCTTCCTGGTGCTGCCCCTGGGCAAGAC
TGGACGTGTGGACAAGAATGCGCCCACGGTCTGTGGCCACACAGCCCCTGTGCTAGACATCGCCTGGTGCCCGCA
CAATGACAACGTCATTGCCAGTGGCTCCGAGGACTGCACAGTCATGGTGTGGGAGATCCCGGATGGGGGCCTGAT
GCTGCCCCTGCGGGAGCCCGTCGTCACCCTGGAGGGCCACACCAAGCGTGTGGGCATTGTGGCCTGGCACACCAC
AGCCCAGAACGTGCTGCTCAGTGCAGGTTGTGACAACGTGATCATGGTGTGGGACGTGGGCACTGGGGCGGCCAT
GCTGACACTGGGCCCAGAGGTGCACCCAGACACGATCTACAGTGTGGACTGGAGCCGAGATGGAGGCCTCATTTG
TACCTCCTGCCGTGACAAGCGCGTGCGCATCATCGAGCCCCGCAAAGGCACTGTCGTAGCTGAGAAGGACCGTCC
CCACGAGGGGACCCGGCCCGTGCGTGCAGTGTTCGTGTCGGAGGGGAAGATCCTGACCACGGGCTTCAGCCGCAT
GAGTGAGCGGCAGGTGGCGCTGTGGGACACAAAGCACCTGGAGGAGCCGCTGTCCCTGCAGGAGCTGGACACCAG
CAGCGGTGTCCTGCTGCCCTTCTTTGACCCTGACACCAACATCGTCTACCTCTGTGGCAAGGGTGACAGCTCAAT
CCGGTACTTTGAGATCACTTCCGAGGCCCCTTTCCTGCACTATCTCTCCATGTTCAGTTCCAAGGAGTCCCAGCG
GGGCATGGGCTACATGCCCAAACGTGGCCTGGAGGTGAACAAGTGTGAGATCGCCAGGTTCTACAAGCTGCACGA
GCGGAGGTGTGAGCCCATTGCCATGACAGTGCCTCGAAAGTCGGACCTGTTCCAGGAGGACCTGTACCCACCCAC
CGCAGGGCCCGACCCTGCCCTCACGGCTGAGGAGTGGCTGGGGGGTCGGGATGCTGGGCCCCTCCTCATCTCCCT
CAAGGATGGCTACGTACCCCCAAAGAGCCGGGAGCTGAGGGTCAACCGGGGCCTGGACACCGGGCGCAGGAGGGC
AGCACCAGAGGCCAGTGGCACTCCCAGCTCGGATGCCGTGTCTCGGCTGGAGGAGGAGATGCGGAAGCTCCAGGC
CACGGTGCAGGAGCTCCAGAAGCGCTTGGACAGGCTGGAGGAGACAGTCCAGGCCAAG**TAG**AGCCCCGCAGGGCC
TCCAGCAGGGTCAGCCATTCACACCCATCCACTCACCTCCCATTCCCAGCCACATGGCAGAGAAAAAAATCATAA
TAAAATGGCTTTATTTTCTGGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAGG
GGGGGGGGA

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# FIGURE 4517

MSRQVVRSSKFRHVFGQPAKADQCYEDVRVSQTTWDSGFCAVNPKFVALICEASGGGAFLVLPLGKTGRVDKNAP
TVCGHTAPVLDIAWCPHNDNVIASGSEDCTVMVWEIPDGGLMLPLREPVVTLEGHTKRVGIVAWHTTAQNVLLSA
GCDNVIMVWDVGTGAAMLTLGPEVHPDTIYSVDWSRDGGLICTSCRDKRVRIIEPRKGTVVAEKDRPHEGTRPVR
AVFVSEGKILTTGFSRMSERQVALWDTKHLEEPLSLQELDTSSGVLLPFFDPDTNIVYLCGKGDSSIRYFEITSE
APFLHYLSMFSSKESQRGMGYMPKRGLEVNKCEIARFYKLHERRCEPIAMTVPRKSDLFQEDLYPPTAGPDPALT
AEEWLGGRDAGPLLISLKDGYVPPKSRELRVNRGLDTGRRRAAPEASGTPSSDAVSRLEEEMRKLQATVQELQKR
LDRLEETVQAK

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# FIGURE 4518

GCCACGAAGGCCGGAGAGCCGGAACCGGAGTCGCAGCGGCGGAGACCCCTGTGCGGTGCGGAGGGGGCGGCGGCC
CCGACTCTGACCCGCGCCGGGGGTGGGCC**ATG**GCGGAGATCAGCGACCTGGACCGGCAGATCGAGCAGCTGCGTC
GCTGCGAGCTCATCAAGGAGAGCGAAGTCAAGGCCCTGTGCGCTAAGGCCAGAGAGATCTTGGTAGAGGAGAGCA
ACGTGCAGAGGGTGGACTCGCCAGTCACAGTGTGCGGCGACATCCATGGACAATTCTATGACCTCAAAGAGCTGT
TCAGAGTAGGTGGCGACGTCCCTGAGACCAACTACCTCTTCATGGGGGACTTTGTGGACCGTGGCTTCTATAGCG
TCGAAACGTTCCTCCTGCTGCTGGCACTTAAGGTTCGCTATCCTGATCGCATCACACTGATCCGGGGCAACCATG
AGAGTCGCCAGATCACGCAGGTCTATGGCTTCTACGATGAGTGCCTGCGCAAGTACGGCTCGGTGACTGTGTGGC
GCTACTGCACTGAGATCTTTGACTACCTCAGCCTGTCAGCCATCATCGATGGCAAGATCTTCTGCGTGCACGGGG
GCCTCTCCCCCTCCATCCAGACCCTGGATCAGATTCGGACAATCGACCGAAAGCAAGAGGTGCCTCATGATGGGC
CCATGTGTGACCTCCTCTGGTCTGACCCAGAAGACACCACAGGCTGGGGCGTGAGCCCCCGAGGAGCCGGCTACC
TATTTGGCAGTGACGTGGTGGCCCAGTTCAACGCAGCCAATGACATTGACATGATCTGCCGTGCCCACCAACTGG
TGATGGAAGGTTACAAGTGGCACTTCAATGAGACGGTGCTCACTGTGTGGTCGGCACCCAACTACTGCTACCGCT
GTGGGAATGTGGCAGCCATCTTGGAGCTGGACGAGCATCTCCAGAAAGATTTCATCATCTTTGAGGCTGCTCCCC
AAGAGACACGGGGCATCCCCTCCAAGAAGCCCGTGGCCGACTACTTCCTG**TGA**CCCCGCCCGGCCCCTGCCCCCT
CCAACCCTTCTGGCCCTCGCACCACTGTGACTCTGCCATCTTCCTCAGACGGAGGCTGGGCGTGGGGGGGCTGT
CCTGGCTCTGCTGTCCCCCAAGAGGGTGCTTCGAGGGTGAGGACTTCTCTGGAGAGGCCTGGAGACCTAGCTCCA
TGTTCCTCCTCCTCTCTCCCCACTTGAACCATGAAGTTTCCAATAATTTTTTTTTCTTTTTTTCCTTCTTTTTTC
TGTTTGTTTTTAGATAAAAATTTTGAGAAAAAAAATGAAAAAATTCTAATAAAAGAAGAAAAATGAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAA

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# FIGURE 4519

MAEISDLDRQIEQLRRCELIKESEVKALCAKAREILVEESNVQRVDSPVTVCGDIHGQFYDLKELFRVGGDVPET
NYLFMGDFVDRGFYSVETFLLLLALKVRYPDRITLIRGNHESRQITQVYGFYDECLRKYGSVTVWRYCTEIFDYL
SLSAIIDGKIFCVHGGLSPSIQTLDQIRTIDRKQEVPHDGPMCDLLWSDPEDTTGWGVSPRGAGYLFGSDVVAQF
NAANDIDMICRAHQLVMEGYKWHFNETVLTVWSAPNYCYRCGNVAAILELDEHLQKDFIIFEAAPQETRGIPSKK
PVADYFL

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## FIGURE 4520

AGTACCGGGTACGCAGGGGTGCCTCAACCACACTCCGTCCACGGACTCTCCGTTATTTTAGGAGGTCCCTGGCCA
AAGATTTATTTCTCTTGACAACCAAGGGCCTCCGTCTGGATTTCCAAGGAAGAATTTCCTCTGAAGCACCGGAAC
TTGCTACTACCAGCACC**ATG**CCCTACCAATATCCAGCACTGACCCCGGAGCAGAAGAAGGAGCTGTCTGACATCG
CTCACCGCATCGTGGCACCTGGCAAGGGCATCCTGGCTGCAGATGAGTCCACTGGGAGCATTGCCAAGCGGCTGC
AGTCCATTGGCACCGAGAACACCGAGGAGAACCGGCGCTTCTACCGCCAGCTGCTGCTGACAGCTGACGACCGCG
TGAACCCCTGCATTGGGGGTGTCATCCTCTTCCATGAGACACTCTACCAGAAGGCGGATGATGGGCGTCCCTTCC
CCCAAGTTATCAAATCCAAGGGCGGTGTTGTGGGCATCAAGGTAGACAAGGGCGTGGTCCCCCTGGCAGGGACAA
ATGGCGAGACTACCACCCAAGGGTTGGATGGGCTGTCTGAGCGCTGTGCCCAGTACAAGAAGGACGGAGCTGACT
TCGCCAAGTGGCGTTGTGTGCTGAAGATTGGGGAACACACCCCCTCAGCCCTCGCCATCATGGAAAATGCCAATG
TTCTGGCCCGTTATGCCAGTATCTGCCAGCAGAATGGCATTGTGCCCATCGTGGAGCCTGAGATCCTCCCTGATG
GGGACCATGACTTGAAGCGCTGCCAGTATGTGACCGAGAAGGTGCTGGCTGCTGTCTACAAGGCTCTGAGTGACC
ACCACATCTACCTGGAAGGCACCTTGCTGAAGCCCAACATGGTCACCCCAGGCCATGCTTGCACTCAGAAGTTTT
CTCATGAGGAGATTGCCATGGCGACCGTCACAGCGCTGCGCCGCACAGTGCCCCCCGCTGTCACTGGGATCACCT
TCCTGTCTGGAGGCCAGAGTGAGGAGGAGGCGTCCATCAACCTCAATGCCATTAACAAGTGCCCCCTGCTGAAGC
CCTGGGCCCTGACCTTCTCCTACGGCCGAGCCCTGCAGGCCTCTGCCCTGAAGGCCTGGGGCGGGAAGAAGGAGA
ACCTGAAGGCTGCGCAGGAGGAGTATGTCAAGCGAGCCCTGGCCAACAGCCTTGCCTGTCAAGGAAAGTACACTC
CGAGCGGTCAGGCTGGGGCTGCTGCCAGCGAGTCCCTCTTCGTCTCTAACCACGCCTAT**TAA**GCGGAGGTGTTCC
CAGGCTGCCCCCAACAACTCCAGGCCCTGCCCCCTCCCACTCTTGAAGAGGAGGCCGCCTCCTCGGGGCTCCAGG
CTGGCTTGCCCGCGCTCTTTCTTCCCTCGTGACAGTGGTGTGTGGTGTCGTCTGTGAATGCTAAGTCCATCACCC
TTTCCGGCACACTGCCAAATAAACAGCTATTTAAGGGGG

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# FIGURE 4521

MPYQYPALTPEQKKELSDIAHRIVAPGKGILAADESTGSIAKRLQSIGTENTEENRRFYRQLLLTADDRVNPCIG
GVILFHETLYQKADDGRPFPQVIKSKGGVVGIKVDKGVVPLAGTNGETTTQGLDGLSERCAQYKKDGADFAKWRC
VLKIGEHTPSALAIMENANVLARYASICQQNGIVPIVEPEILPDGDHDLKRCQYVTEKVLAAVYKALSDHHIYLE
GTLLKPNMVTPGHACTQKFSHEEIAMATVTALRRTVPPAVTGITFLSGGQSEEEASINLNAINKCPLLKPWALTF
SYGRALQASALKAWGGKKENLKAAQEEYVKRALANSLACQGKYTPSGQAGAAASESLFVSNHAY

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## FIGURE 4522

GGCACGAGGCGGCCTCCCTGCCCCTTCACGGCCCGCCTGCCTCCCTGCCCAAGTCCTGAGCCACCATGCTGACCC
CGATGGTGGCCGGGGGGGTGGTGTTCCCCGGACTCTTCCTCCTCTCCAAGAACACGCTCCAGCGGCTGCCCCAGC
TACGCTGGGAGGAGGCCGACGCAGTCATTGTCTCAGCCAGGCTGGTGTCCTCTGTCCAGGCCATC**ATG**GCCTCCA
CTGCCGGCTACATCGTCTCCACCTCCTGCAAGCACATCATTGATGACCAACACTGGCTGTCCTCTGCCTACACGC
AATTTGCTGTGCCCTACTTCATCTACGACATCTACGCCATGTTCCTCTGTCACTGGCACAAGCACCAGGTCAAAG
GGCATGGAGGGGACGACGGAGCGGCCAGAGCCCCGGGCAGCACGTGGGCCATAGCGCGTGGCTACCTGCACAAGG
AGTTCCTCATGGTGCTCCACCATGCCGCCATGGTGCTGGTGTGCTTCCCACTCTCAGTGGTGTGGCGACAGGGTA
AGGGAGACTTCTTTCTGGGTTGCATGTTGATGGCAGAGGTCAGCACGCCCTTCGTCTGCCTTGGCAAGATCCTCA
TCCAGTACAAGCAGCAGCACACACTGCTGCACAAGGTGAACGGGGCCCTGATGCTGCTCAGCTTCCTCTGCTGCC
GGGTGCTGCTCTTTCCCTACCTGTACTGGGCCTACGGGCGCCATGCCGGCCTGCCCCTGCTGGCCGTGCCCCTGG
CCATCCCTGCCCACGTCAACCTGGGCGCTGCGCTGCTCCTGGCCCCTCAGCTCTACTGGTTCTTCCTCATCTGCC
GTGGGGCCTGCCGCCTCTTCTGGCCCCGCTCCCGGCCGCCCCCGGCCTGCCAGGCCCAGGAC**TGA**GGCCGGGGGC
CGGGACCCTCCCCCTCCCCACCCCCACCCCCGTGGAGACAGGGCTCTGGGGCTGATGGCTGGGGTTGGGAGCCAG
GGTCCTCTTGCCCGGACAACCCCAGGACTGACGATGACCCCGAAAGGGAAGAGGCCCCATCTCTCGGGGACTGAG
GGGGTGGAGAGAGGGGACCTCTTCCCCCTACTCTGCCCCCTTCCTGCACACCCTTGCGCTGGAGGAGGGGAGGGG
GCACCGCCTCCCACCCACTGAGGGCAGGAGGGCTTGTGGGGAGGGACACCAACAGGGTTTCAAGGGGACCAGGAG
TCAGAATGTGGGGAGACGCCTCTGCCAAGGCCATCCCAGCCCCTATGCTGCCATCCCCCAGGGCTCCCCATCACC
CGAGAGGAGAGGACGCCCCAACTAACCCCCGCTGGCCCTCGGGCCTCCCGAGTGGCCGGCTGCAACCACGGCTCC
TCTCCAGGGTAGGCCAGCTTGAGGAATCTTATTTATTTTATTTATTTACCCAAATTTGAACTAGTCTGTTGGGTT
GGGGGAAGGAGGTGGCTGCTACCCCCAAGCCTTCCCAGTGCTGACAACCCCGGGGGCAGGCGAGGGCGCCCAGTC
CCTCACCATCGGCTGCACATCGCGCCCTCGGGCCCTGCCATGTCCCTGGTGCTACTGACCTCTCAAGGCTTCCTC
CAATCTGGGGTCGGGGGACCCTGGGAGGTGCTTTACAGACCGCTAATAAAAGACGATCTGCGTGAACGCCAAAAA
AAAAAAAAAAAAAAAAAAAA

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**FIGURE 4523**

MASTAGYIVSTSCKHIIDDQHWLSSAYTQFAVPYFIYDIYAMFLCHWHKHQVKGHGGDDGAARAPGSTWAIARGY
LHKEFLMVLHHAAMVLVCFPLSVVWRQGKGDFFLGCMLMAEVSTPFVCLGKILIQYKQQHTLLHKVNGALMLLSF
LCCRVLLFPYLYWAYGRHAGLPLLAVPLAIPAHVNLGAALLLAPQLYWFFLICRGACRLFWPRSRPPPACQAQD

## FIGURE 4524

CGTTGGCCCTTGGCCGCGGACCGCGTGGGCCGAGAACTTTGCCAGACGAGACTTGTTTTCTCTGGGCAGTTGGAG
GGTCTCGCGGCTCCTACCCTTTTTTGGAACGGATCATTTTAAAAGTTCTCGTTAGAAACCAATTCGGCGCCGGCA
CCCTTTGGGTGAAACCTAATCAGCCCGCGACGCTGCCTTTCTCACTGGTCACGGGCAACAGCTAGGCTGCTGTTA
TTTCGCAAGGCAGAAGAGAAAAGGCATCCTCGCGAGCAG**ATG**AGGAACCTCGGGGATAAATCCTTTTGTGGCTTC
AAGTGTCTAAGTACATTAGAGTCAGGAACGGCGCTTTCCAGCGTCCGCCATTTTTGTGGCGTCACCGCGTCGCTG
CTACGGCTTGGGGTAGCGGGAGGGCAGACTCTGGGCGCCACTCCCGGGCCGGTCATGAACGGGCCGGCGGACGGC
GAAGTGGACTACAAAAAAAAATACCGGAATCTGAAGCGGAAGCTCAAGTTCCTCATCTACGAGCACGAGTGCTTC
CAGGAGGAGCTGAGGAAAGCGCAAAGGAAATTACTGAAGGTGTCCCGGGACAAGAGTTTCCTCCTAGACCGACTT
CTGCAGTACGAGAACGTGGATGAAGACTCTTCGGACTCAGATGCCACTGCATCATCAGATAACAGCGAGACGGAG
GGGACACCCAAGTTGTCTGACACACCGGCCCCTAAGAGGGTTTCCCCTTCAGGCCTCCGGGGTCCCCTCCCCATA
CCTGAGCTCGCTGGCCTCCTCCCGCTACCCCCCATTCCCTTCTGACTACCTGGCCCTGCAGCTGCCCGAGCCCAG
TCCCCTGAGGCCCAAGCGGGAGAAACGGCCCCGCCTGCCCCGGAAACTCAAGATGGCGGTGGGACCCCCCGACTG
CCCTGTGGGAGGGCCGCTGACCTTCCCTGGCCGGGGTTCTGGGGCTGGGGTCGGGACAACCCTGACCCCCCTCCC
ACCCCCTAAGATGCCCCCCCCCACGATCCTGAGCACGGTCCCTCGGCAGATGTTCAGCGATGCAGGTAGCGGGGA
CGATGCCTTGGATGGAGACGATGACCTGGTGATCGACATCCC

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# FIGURE 4525

MRNLGDKSFCGFKCLSTLESGTALSSVRHFCGVTASLLRLGVAGGQTLGATPGPVMNGPADGEVDYKKKYRNLKR
KLKFLIYEHECFQEELRKAQRKLLKVSRDKSFLLDRLLQYENVDEDSSDSDATASSDNSETEGTPKLSDTPAPKR

# FIGURE 4526

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CCGAGGTTCCTCATCTGCTCGCGAGGATGCCTTTTCTCTTCTGCCTTGCGAAATAACAGCAGCCTAGCTGTTGCC
CGTGACCAGTGAGAAAGGCAGCGTCGCGGGCTGATTAGGTTTCACCCAAAGGGTGCCGGCGCCGAATTGGTTTCT
AACGAGAACTTTTAAAATGATCCGTTCCAAAAAAGGGTAGGAGCCGCGAGACCCTCCAACTGCCCAGAGAAAACA
AGTCTCGTCTGGCAAAGTTCTCGGCCCACGCGGTCCGCGGCCAAGGGCCAACGGTCCCTCGCCCCACGTTGCCGC
AGCACTGCGCGTGCGCGAGCCGCTGTCAAACGCGCTGACGGAGGCCGAGAAGAAAAAAAGGCGGGAGCCGTCAAT
CCCGGGTTGAGCAAAATGGCGCGGGAGAAGGAGATGCAGGAGTTCACCCGTAGCTTCTTCCGAGGCCGCCCGGAC
CTCAGCACGCTTACGCATTCCATCGTGCGGCGGAGGTACTTAGCTCACTCGGGCCGCAGCCACCTGGAGCCCGAG
GAGAAGCAGGCACTGAAGCGGCTGGTGGAGGAGGAGCTGCTGAAGATGCAGGTGGATGAAGCCGCTTCCAGGGAA
GACAAACTGGACCTTACCAAGAAGGGCAAGAGGCCTCCCACCCCTTGTAGCGACCCGGAGAGAAAAAGGTTCCGC
TTCAATTCAGAGTCGGAGTCCGGCTCTGAAGCCTCCAGCCCAGACTACTTTGGACCCCCAGCAAAGAATGGGGTG
GCAGCAGAAGTCAGCCCAGCCAAAGAGGAGAATCCAAGGCGAGCCTCAAAGGCAGTTGAGGAGAGCAGTGATGAG
GAACGGCAGAGGGACCTGCCCGCACAGAGGGGAGAGGAGAGCAGTGAGGAGGAGGAAAAGGGGTACAAGGGGAAG
ACTAGGAAGAAACCTGTGGTAAAGAAGCAGGCACCAGGCAAGGCCTCAGTCAGTAGGAAGCAGGCCAGGGAAGAA
AGTGAGGAGAGCGAGGCAGAACCCGTTCAGAGGACAGCAAAGAAGGTGGAGGGAAATAAAGGAACTAAAAGCCTG
AAGGAAAGTGAACAGGAGAGTGAAGAGGAGATCCTAGCCCAGAAGAAAGAGCAGAGAGAGGAGGAAGTGGAGGAG
GAAGAGAAAGAAGAGGATGAGGAAAAGGGGGATTGGAAACCCAGAACCAGGAGCAATGGCCGGAGAAAGTCAGCT
AGGGAGGAGAGGAGCTGTAAGCAGAAAAGCCAGGCAAAGAGGCTCTTGGGAGACTCAGACAGCGAGGAAGAGCAG
AAAGAGGCAGCCAGCAGTGGGGATGACAGTGGGAGAGATAGAGAACCCCCAGTGCAGAGGAAGAGTGAGGACAGG
ACCCAGCTTAAGGGTGGGAAGAGGTTGAGTGGAAGCAGCGAGGACGAGGAAGACAGTGGGAAGGGGGAACCCACA
GCTAAAGGCTCTAGAAAGATGGCCAGACTGGGCAGCACCAGTGGTGAGGAAAGTGACTTGGAGAGGGAGGTAAGT
GACAGCGAGGCAGGGGGAGGCCCCCAGGGGGAGAGGAAGAACCGCTCTTCCAAGAAGAGCTCCAGGAAAGGCAGG
ACACGAAGCTCCTCTTCCTCCTCAGATGGAAGTCCAGAGGCCAAAGGAGGGAAGGCTGGCTCAGGTCGCCGTGGA
GAGGACCACCCGGCTGTGATGAGGCTGAAGCGCTACATTCGGGCCTGTGGTGCCCATCGAAACTACAAGAAGCTG
TTGGGCTCCTGTTGCTCACACAAGGAGCGCCTGAGTATCCTCCGGGCAGAACTGGAAGCGCTAGGCATGAAGGGT
ACCCCTTCCCTAGGGAAGTGTCGGGCCCTGAAGGAGCAGAGGGAGGAGGCAGCTGAGGTGGCCTCCTTGGATGTT
GCGAACATCATCAGTGGCTCGGGCCGGCCACGCGAGACGTACAGCCTGGAACCCTTTAGGAGAAGCAGCACCCCCA
GGGGAGCTGTACCGACGGACCCTGGACTCAGATGAAGAGCGGCCCCGTCCCGCACCCCCAGACTGGTCACATATG
CGTGGCATCATCAGCAGTGATGGCGAGAGTAACTGAGCTCTGCCACCCCCAGGAGGGACCCTTGATACATGTACA
AAGCATACATAGCACCCCTTGCCCTGTGTCTGTGGAACAGAAGCAGCTTCCTTCAGAGAAGACTGCAGCTCCCAA
GGACACAAGCTGTTGGGATGCTACTTCTCAGCTTCACGCTGTCCCTTTAAGGTGTTTATTTTTTAAGACTCAATA
AAGGAGTGTTTTTAATCACCTC
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# FIGURE 4527

AGCAGGGTCTCACTCTGTCACCCAGGCTGGAGTGCAGTGGCGCAGTTATAGCTCACTGCAGCCTTGAACTCCTGG
GCTCAAGTGATCCTTCCACCTCAGCCTCCCTAGTAGCTGGGACCACAGGTGGTGACTTCCAAGAGTGACTCCGTC
GGAGGAAAATGACTCCCCAGTCGCTGCTGCAGACGACACTGTTCCTGCTGAGTCTGCTCTTCCTGGTCCAAGGTG
CCCACGGCAGGGGCCACAGGGAAGACTTTCGCTTCTGCAGCCAGCGGAACCAGACACACAGGAGCAGCCTCCACT
ACAAACCCACACCAGACCTGCGCATCTCCATCGAGAACTCCGAAGAGGCCCTCACAGTCCATGCCCCTTTCCCTG
CAGCCCACCCTGCTTCCCGATCCTTCCCTGACCCCAGGGGCCTCTACCACTTCTGCCTCTACTGGAACCGACATG
CTGGGAGATTACATCTTCTCTATGGCAAGCGTGACTTCTTGCTGAGTGACAAAGCCTCTAGCCTCCTCTGCTTCC
AGCACCAGGAGGAGAGCCTGGCTCAGGGCCCCCGCTGTTAGCCACTTCTGTCACCTCCTGGTGGAGCCCTCAGA
ACATCAGCCTGCCCAGTGCCGCCAGCTTCACCTTCTCCTTCCACAGTCCTCCCCACACGGCCGCTCACAATGCCT
CGGTGGACATGTGCGAGCTCAAAAGGGACCTCCAGCTGCTCAGCCAGTTCCTGAAGCATCCCCAGAAGGCCTCAA
GGAGGCCCTCGGCTGCCCCCGCCAGCCAGCAGTTGCAGAGCCTGGAGTCGAAACTGACCTCTGTGAGATTCATGG
GGGACATGGTGTCCTTCGAGGAGGACCGGATCAACGCCACGGTGTGGAAGCTCCAGCCCACAGCCGGCCTCCAGG
ACCTGCACATCCACTCCCGGCAGGAGGAGGAGCAGAGCGAGATCATGGAGTACTCGGTGCTGCTGCCTCGAACAC
TCTTCCAGAGGACGAAAGGCCGGAGCGGGGAGGCTGAGAAGAGACTCCTCCTGGTGGACTTCAGCAGCCAAGCCC
TGTTCCAGGACAAGAATTCCAGCCAAGTCCTGGGTGAGAAGGTCTTGGGGATTGTGGTACAGAACACCAAAGTAG
CCAACCTCACGGAGCCCGTGGTGCTCACTTTCCAGCACCAGCTACAGCCGAAGAATGTGACTCTGCAATGTGTGT
TCTGGGTTGAAGACCCCACATGTGACAGCCCGGGGCATTGGAGCAGTGCTGGGTGTGAGACCGTCAGGAGAGAAA
CCCAAACATCCTGCTTCTGCAACCACTTGACCTACTTTGCAGTGCTGATGGTCTCCTCGGTGGAGGTGGACGCCG
TGCACAAGCACTACCTGAGCCTCCTCTCCTACGTGGGCTGTGTCGTCTCTGCCCTGGCCTGCCTTGTCACCATTG
CCGCCTACCTCTGCTCCAGGGTGCCCCTGCCGTGCAGGAGGAAACCTCGGGACTACACCATCAAGGTGCACATGA
ACCTGCTGCTGGCCGTCTTCCTGCTGGACACGAGCTTCCTGCTCAGCGAGCCGGTGGCCCTGACAGGCTCTGAGG
CTGGCTGCCGAGCCAGTGCCATCTTCCTGCACTTCTCCCTGCTCACCTGCCTTTCCTGGATGGGCCTCGAGGGGT
ACAACCTCTACCGACTCGTGGTGGAGGTCTTTGGCACCTATGTCCCTGGCTACCTACTCAAGCTGAGCGCCATGG
GCTGGGGCTTCCCCATCTTTCTGGTGACGCTGGTGGCCCTGGTGGATGTGGACAACTATGGCCCCATCATCTTGG
CTGTGCATAGGACTCCAGAGGGCGTCATCTACCCTTCCATGTGCTGGATCCGGGACTCCCTGGTCAGCTACATCA
CCAACCTGGGCCTCTTCAGCCTGGTGTTTCTGTTCAACATGGCCATGCTAGCCACCATGGTGGTGCAGATCCTGC
GGCTGCGCCCCCACACCCAAAAGTGGTCACATGTGCTGACACTGCTGGGCCTCAGCCTGGTCCTTGGCCTGCCCT
GGGCCTTGATCTTCTTCTCCTTTGCTTCTGGCACCTTCCAGCTTGTCGTCCTCTACCTTTTCAGCATCATCACCT
CCTTCCAAGGCTTCCTCATCTTCATCTGGTACTGGTCCATGCGGCTGCAGGCCCGGGGTGGCCCCTCCCCTCTGA
AGAGCAACTCAGACAGCGCCAGGCTCCCCATCAGCTCGGGCAGCACCTCGTCCAGCCGCATCTAGGCCTCCAGCC
CACCTGCCCATGTGATGAAGCAGAGATTCGGCCTCGTCGCACACTGCCTGTGGCCCCCGAGCCCGGCCCAGCCCC
AGGCCAGTCAGCCGCAGACTTTGGAAAGCCCAACGACCATGGAGAGATGGGCCGTTGCCATGGTGGACGGACTCC
CGGGCTGGGCTTTTGAATTGGCCTTGGGGACTACTCGGCTCTCACTCAGCTCCCACGGGACTCAGAAGTGCGCCG
CCATGCTGCCTAGGGTACTGTCCCCACATCTGTCCCAACCCAGCTGGAGGCCTGGTCTCTCCTTACAACCCCTGG
GCCCAGCCCTCATTGCTGGGGGGCCAGGCCTTGGATCTTGAGGGTCTGGCACATCCTTAATCCTGTGCCCCTGCCT
GGGACAGAAATGTGGCTCCAGTTGCTCTGTCTCTCGTGGTCACCCTGAGGGCACTCTGCATCCTCTGTCATTTTA
ACCTCAGGTGGCACCCAGGGCGAATGGGGCCCAGGGCAGACCTTCAGGGCCAGAGCCCTGGCGGAGGAGAGGCCC
TTTGCCAGGAGCACAGCAGCAGCTCGCCTACCTCTGAGCCC

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# FIGURE 4528

AGGGCTTCCTGAAGAATGAGAAGGACAATGCCCTGCTGTCTGCCATCGAAGAGTCCCGGAAGAGGACCTTCGGCA
TGGCTGAGGAGTACCATCGGGAGTCAATGTTGGTTGAGTGGGAGCAAGTGAAACAGCGAATTCTGCACACACTGC
TGGCATCAGGAGAAGACGCCCTTGACTTTACTCAAGAAAGCGAGCCAAGCTACATCAGTGATGTGGGACCCCCTG
GTCGAAGCTCTCTGGATAACATCGAGATGGCCTATGCGCGGCAAATTTATATCTATAATGAGAAAATTGTAAATG
GACACCTGCAGCCTAACCTGGTGGACCTTTGTGCTTCCGTCGCAGAGCTCGATGATAAGAGCATTTCCGACATGT
GGACCATGGTAAAACAAATGACAGACGTGTTGTTGACACCGGCAACGGATGCCCTGAAGAACCGCAGCAGCGTGG
AAGTGCGCATGGAGTTTGTCAGGCAGGCCTTGGCGTACCTTGAGCAGAGTTATAAGAATTACACCCTTGTGACTG
TCTTTGGAAATTTGCATCAGGCCCAGCTGGGCGGGGTGCCTGGGACTTACCAATTGGTTCGAAGTTTCCTGAACA
TTAAACTGCCAGCTCCCTTGCCTGGACTACAGGATGGAGAGGTGGAAGGCCATCCTGTGTGGGCGCTAATTTACT
ACTGCATGCGCTGTGGAGACCTGCTTGCCGCTTCACAGGTAGTTAATCGAGCCCAGCACCAGCTGGGAGAGTTTA
AAACCTGGTTCCAGGAGTACATGAACAGCAAGGACAGAAGATTGTCCCCAGCTACGGAAAACAAGCTCCGGCTGC
ATTACCGTAGGGCCCTCAGGAACAATACAGATCCCTACAAGCGGGCCGTGTACTGTATCATTGGCAGATGTGACG
TCACCGACAACCAGAGTGAAGTGGCGGACAAAACTGAGGATTACCTGTGGCTGAAGTTGAACCAAGTGTGTTTTG
ACGACGATGGCACCAGCTCCCCACAAGACAGGCTCACTCTCTCACAGTTCCAGAAGCAGTTGTTGGAAGACTATG
GCGAGTCCCACTTTACGGTGAACCAGCAACCCTTCCTCTACTTCCAAGTCCTGTTCCTGACAGCGCAGTTTGAAG
CAGCAGTTGCCTTTCTTTTCCGCATGGAGCGGCTGCGCTGCCATGCTGTCCATGTAGCACTGGTGCTGTTTGAGC
TGAAGCTGCTTTTAAAGTCCTCTGGACAGAGTGCTCAGCTCCTCAGCCACGAGCCTGGTGACCCTCCTTGCTTGC
GGCGGCTGAACTTCGTGCGGCTCCTCATGCTGTACACCCGGAAGTTTGAGTCCACGGACCCAAGGGAGGCCCTCC
AGTACTTCTATTTCCTCAGGGATGAGAAAGATAGTCAAGGAGAAAACATGTTTCTGCGCTGTGTGAGTGAGCTTG
TGATTGAAAGCCGAGAGTTCGATATGATTCTTGGGAAACTAGAGAATGACGGAAGTAGAAAGCCTGGAGTCATAG
ATAAGTTTACTAGTGACACAAAGCCTATTATCAACAAAGTTGCTTCTGTGGCAGAAAATAAAGGACTGTTTGAAG
AGGCAGCAAAGCTGTATGACCTTGCCAAGAATGCTGACAAGGTACTGGAGCTGATGAACAAACTGCTGAGCCCTG
TCGTCCCCCAGATCAGTGCCCCGCAATCCAACAAGGAGAGGCTGAAGAACATGGCACTCTCCATTGCCGAACGGT
ATAGGGCTCAAGGAATAAGCGCAAATAAATTTGTGGACTCCACGTTCTATCTTCTTTTGGACTTGATCACCTTTT
TTGACGAGTATCATAGTGGTCATATTGATAGAGCTTTTGATATCATTGAGCGCTTGAAGCTGGTGCCCCTGAATC
AGGAAAGTGTGGAAGAGAGAGTGGCTGCCTTCAGAAATTTCAGTGATGAAATCAGGCACAACCTCTCAGAAGTGC
TTCTTGCCACCATGAACATCTTGTTCACACAGTTTAAGAGGCTCAAGGGGACAAGTCCATCCTCGTCATCCAGGC
CCCAGCGAGTCATCGAGGACCGCGACTCTCAACTCCGAAGTCAAGCCCGCACTCTGATTACCTTTGCTGGAATGA
TACCATACCGAACGTCTGGGGACACCAATGCGAGGCTGGTGCAGATGGAGGTCCTCATGAATTAAGTGCCATGCT
TTGTGGGAGTCTGGGTCGGCACACTGTCAGTACATCAGGCACATGGGCCCACTAGGCTGGGGTTTCTGGTTTTGT
TTCTGTTGTGTTTTGTTTTGGTTTCTGTATTATGTATTTTTGTCAACGCCAATAAATTTCTTTGATTTGT

4908/6881
# FIGURE 4529

MAEEYHRESMLVEWEQVKQRILHTLLASGEDALDFTQESEPSYISDVGPPGRSSLDNIEMAYARQIYIYNEKIVN
GHLQPNLVDLCASVAELDDKSISDMWTMVKQMTDVLLTPATDALKNRSSVEVRMEFVRQALAYLEQSYKNYTLVT
VFGNLHQAQLGGVPGTYQLVRSFLNIKLPAPLPGLQDGEVEGHPVWALIYYCMRCGDLLAASQVVNRAQHQLGEF
KTWFQEYMNSKDRRLSPATENKLRLHYRRALRNNTDPYKRAVYCIIGRCDVTDNQSEVADKTEDYLWLKLNQVCF
DDDGTSSPQDRLTLSQFQKQLLEDYGESHFTVNQQPFLYFQVLFLTAQFEAAVAFLFRMERLRCHAVHVALVLFE
LKLLLKSSGQSAQLLSHEPGDPPCLRRLNFVRLLMLYTRKFESTDPREALQYFYFLRDEKDSQGENMFLRCVSEL
VIESREFDMILGKLENDGSRKPGVIDKFTSDTKPIINKVASVAENKGLFEEAAKLYDLAKNADKVLELMNKLLSP
VVPQISAPQSNKERLKNMALSIAERYRAQGISANKFVDSTFYLLLDLITFFDEYHSGHIDRAFDIIERLKLVPLN
QESVEERVAAFRNFSDEIRHNLSEVLLATMNILFTQFKRLKGTSPSSSSRPQRVIEDRDSQLRSQARTLITFAGM
IPYRTSGDTNARLVQMEVLMN

4909/6881
# FIGURE 4530

GACGTGAACGGTCGTTGCAGAGATTGCGGGCGGCTGAGACGCCGCCTGCCTGGCACCTAGGAGCGCAGCGGAGCC
CCGACACCGCCGCCGCCGCC**ATG**GAGTCCGAGACCGAACCCGAGCCCGTCACGCTCCTGGTGAAGAGCCCCAACC
AGCGCCACCGCGACTTGGAGCTGAGTGGCGACCGCGGCTGGAGTGTGGGCCACCTCAAGGCCCACCTGAGCCGCG
TCTACCCCGAGCGTCCGCGTCCAGAGGACCAGAGGTTAATTTATTCTGGGAAGCTGTTGTTGGATCACCAATGTC
TCAGGGACTTGCTTCCAAAGCAGGAAAAACGGCATGTTTTGCATCTGGTGTGCAATGTGAAGAGTCCTTCAAAAA
TGCCAGAAATCAACGCCAAGGTGGCTGAATCCACAGAGGAGCCTGCTGGTTCTAATCGGGGACAGTATCCTGAGG
ATTCCTCAAGTGATGGTTTAAGGCAAAGGGAAGTTCTTCGGAACCTTTCTTCCCCTGGATGGGAAAACATCTCAA
GGCCTGAAGCTGCCCAGCAGGCATTCCAAGGCCTGGGTCCTGGTTTCTCCGGTTACACACCCTATGGGTGGCTTC
AGCTTTCCTGGTTCCAGCAGATATATGCACGACAGTACTACATGCAATATTTAGCAGCCACTGCTGCATCAGGGG
CTTTTGTTCCACCACCAAGTGCACAAGAGATACCTGTGGTCTCTGCACCTGCTCCAGCCCCTATTCACAACCAGT
TTCCAGCTGAAAACCAGCCTGCCAATCAGAATGCTGCTCCTCAAGTGGTTGTTAATCCTGGAGCCAATCAAAATT
TGCGGATGAATGCACAAGGTGGCCCTATTGTGGAAGAAGATGATGAAATAAATCGAGATTGGTTGGATTGGACCT
ATTCAGCAGCTACATTTTCTGTTTTTCTCAGTATCCTCTACTTCTACTCCTCCCTGAGCAGATTCCTCATGGTCA
TGGGGGGCCACCGTTGTTATGTACCTGCATCACGTTGGGTGGTTTCCATTTAGACCGAGGCCGGTTCAGAACTTCC
CAAATGATGGTCCTCCTCCTGACGTTGTAAATCAGGACCCCAACAATAACTTACAGGAAGGCACTGATCCTGAAA
CTGAAGACCCCAACCACCTCCCTCCAGACAGGGATGTACTAGATGGCGAGCAGACCAGCCCCTCCTTTATGAGCA
CAGCATGGCTTGTCTTCAAGACTTTCTTTGCCTCTCTTCTTCCAGAAGGCCCCCCAGCCATCGCAAAC**TGA**TGGT
GTTTGTGCTGTAGCTGTTGGAGGCTTTGACAGGAATGGACTGGATCACCTGACTCCAGCTAGATTGCCTCTCCTG
GACATGGCAATGATGAGTTTTTAAAAAACAGTGTGGATGATGATATGCTTTTGTGAGCAAGCAAAAGCAGAAACG
TGAAGCCGTGATACAAATTGGTGAACAAAAAATGCCCAAGGCTTCTCATGTCTTTATTCTGAAGAGCTTTAATAT
ATACTCTATGTAGTTTAATAAGCACTGTACGTAGAAGGCCTTAGGTGTTGCATGTCTATGCTTGAGGAACTTTTC
CAAATGTGTGTGTCTGCATGTGTGTTTGTACATAGAAGTCATAGATGCAGAAGTGGTTCTGCTGGTACGATTTGA
TTCCTGTTGGAATGTTTAAATTACACTAAGTGTACTACTTTATATAATCAATGAAATTGCTAGACATGTTTTAGC
AGGACTTTTCTAGGAAAGACTTATGTATAATTGCTTTTTAAAATGCAGTGCTTTACTTTAAACTAAGGGGAACTT
TGCGGAGGTGAAAACCTTTGCTGGGTTTTCTGTTCAATAAAGTTTTACTATGAATGACCCTGAAAAAAAAAAAAA
AAAAAAAA

4910/6881
# FIGURE 4531

MESETEPEPVTLLVKSPNQRHRDLELSGDRGWSVGHLKAHLSRVYPERPRPEDQRLIYSGKLLLDHQCLRDLLPK
QEKRHVLHLVCNVKSPSKMPEINAKVAESTEEPAGSNRGQYPEDSSSDGLRQREVLRNLSSPGWENISRPEAAQQ
AFQGLGPGFSGYTPYGWLQLSWFQQIYARQYYMQYLAATAASGAFVPPPSAQEIPVVSAPAPAPIHNQFPAENQP
ANQNAAPQVVVNPGANQNLRMNAQGGPIVEEDDEINRDWLDWTYSAATFSVFLSILYFYSSLSRFLMVMGATVVM
YLHHVGWFPFRPRPVQNFPNDGPPPDVVNQDPNNNLQEGTDPETEDPNHLPPDRDVLDGEQTSPSFMSTAWLVFK
TFFASLLPEGPPAIAN

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# FIGURE 4532

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CCCGAGCGGCTGGGAGCGCACGCGAGCGGGCCGTGGCCGCGCGGGCAGCGCCCTGAGCCTGTCCCGCGCCCGCGG
GCCCGGCCGAGCAGGAGCAGCTCCCGGGGATGCCCGGGCGGCTCGGAGCGCGGGCAGCGGCAGCCGTGCGGTGAG
GGCGGTGGCGCCCGCGGGACCTGCGACTGCCAGGAACTCCTGCCACCGCCACCGGCTCCCATGGCCCACATACCC
AGTGGGGGTGCCCCAGCAGCGGGGGCAGCCCCCATGGGCCCCCAGTATTGCGTGTGCAAGGTGGAGCTGTCAGTG
AGTGGCCAGAACCTACTGGACCGGGATGTTACCTCCAAGTCCGACCCCTTCTGTGTCCTCTTTACAGAGAACAAT
GGCAGATGGATCGAGTACGACAGGACAGAAACCGCGATCAACAACCTCAACCCCGCCTTCTCCAAGAAGTTCGTG
CTTGACTACCACTTCGAGGAGGTACAGAAGCTCAAGTTCGCGCTCTTTGACCAGGACAAGTCCAGTATGCGGCTG
GACGAGCATGACTTCCTGGGCCAGTTCTCCTGCAGCCTGGGCACGATCGTCTCCAGCAAGAAGATCACTAGGCCT
CTGCTGCTGCTGAATGACAAGCCTGCGGGGAAGGGCTTGATTACGATCGCTGCCCAGGAGCTGTCCGACAACCGC
GTCATCACACTAAGCCTGGCGGGCAGGAGGCTGGACAAGAAGGACCTCTTTGGGAAGTCAGACCCCTTTCTGGAG
TTTTATAAGCCAGGAGACGATGGCAAGTGGATGCTGGTCCACAGGACTGAGGTGATCAAGTACACACTGGACCCT
GTGTGGAAGCCATTCACAGTGCCCTTGGTGTCCCTGTGTGATGGGGACATGGAGAAGCCCATCCAGGTCATGTGC
TACGACTATGACAATGACGGGGGCCATGACTTCATCGGCGAGTTCCAGACCTCAGTGTCACAGATGTGTGAGGCT
CGAGACAGCGTCCCGCTGGAGTTCGAGTGCATCAACCCCAAGAAGCAGAGGAAGAAGAAGAACTATAAAAACTCG
GGCATCATCATCCTGCGATCCTGCAAGATAAACCGAGACTACTCCTTCCTTGACTACATCCTGGGAGGCTGCCAG
CTCATGTTCACCGTTGGAATAGACTTTACAGCCTCCAACGGGAATCCCCTCGACCCTTCCTCTTTGCACTATATC
AACCCTATGGGCACCAACGAATATCTGTCGGCCATCTGGGCTGTTGGGCAGATCATTCAGGACTACGACAGTGAT
AAGATGTTTCCAGCTCTGGGATTCGGGGCCCAGTTACCCCCAGACTGGAAGGTCTCCCATGAGTTTGCCATCAAC
TTCAACCCCACCAACCCCTTCTGCTCAGGTGTGGATGGTATTGCCCAGGCGTACTCAGCTTGCCTGCCCCACATC
CGCTTCTACGGTCCTACCAATTTCTCCCCCATCGTCAACCACGTGGCCCGGTTTGCGGCCCAGGCCACACAACAG
CGGACGGCCACGCAGTACTTCATCCTCCTCATCATCACGGACGGGGTCATCAGTGACATGGAGGAGACACGGCAT
GCCGTGGTGCAGGCTTCCAAGCTGCCCATGTCCATCATCATCGTGGGCGTGGGCAATGCGGACTTCGCTGCCATG
GAGTTCCTGGATGGGGACAGCCGCATGCTGCGCTCCCACACGGGGGAGGAGGCAGCCCGCGATATTGTGCAGTTC
GTTCCCTTTCGAGAGTTCCGCAACGCAGCAAAAGAGACCTTGGCCAAAGCTGTGCTGGCGGAGCTGCCCCAACAA
GTTGTGCAGTATTTCAAGCATAAAAACCTGCCCCCCACCAACTCGGAGCCCGCCTGAGCTCCAGTGCCCAGCAGC
AGCATGTCAGCTGAGCCTCCTGCCCTCCCCCAGGAACATGCACGCTCACTCTGCTTCCTTGTGGGTGGCCTTTTT
TTACCGATCCCCTTTTTTATTTTTTACAACCGGACCTCCACCCCCAACTTCCTCCAGCCCAGCTGGGCTTCCTTT
GTTGGAGTCAACTGTTGATGCTTCCAGGCCAAACTGGCTTCCTCTCCTCCTCTCCCCACCTTTGCCATTCTTAAG
TATTGAATGTACTTTGTATAATTTTAGTGGAATTGTTATTGAGAATAAAATTTTTACAATCAT
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# FIGURE 4533

MRLDEHDFLGQFSCSLGTIVSSKKITRPLLLLNDKPAGKGLITIAAQELSDNRVITLSLAGRRLDKKDLFGKSDP
FLEFYKPGDDGKWMLVHRTEVIKYTLDPVWKPFTVPLVSLCDGDMEKPIQVMCYDYDNDGGHDFIGEFQTSVSQM
CEARDSVPLEFECINPKKQRKKKNYKNSGIIILRSCKINRDYSFLDYILGGCQLMFTVGIDFTASNGNPLDPSSL
HYINPMGTNEYLSAIWAVGQIIQDYDSDKMFPALGFGAQLPPDWKVSHEFAINFNPTNPFCSGVDGIAQAYSACL
PHIRFYGPTNFSPIVNHVARFAAQATQQRTATQYFILLIITDGVISDMEETRHAVVQASKLPMSIIIVGVGNADF
AAMEFLDGDSRMLRSHTGEEAARDIVQFVPFREFRNAAKETLAKAVLAELPQQVVQYFKHKNLPPTNSEPA

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# FIGURE 4534

CGGTGGCGCCGCGCAGTCACCGCGGAGCAGACGCGGAGGCTGGTGGCCCCTGGGCGAGATGCCGTACGCCAACCA
GCCTACCGTGCGGATCACGGAGCTCACTGACGAGAATGTCAAGTTCATCATCGAGAACACCGACCTGGCGGTGGC
CAATTCGATTCGGAGGGTCTTCATCGCTGAGGTTCCCATAATAGCCATTGACTGGGTTCAGATTGATGCCAATTC
CTCAGTTCTTCATGATGAATTCATTGCTCACAGGCTTGGATTAATTCCCCTCATTAGTGATGACATTGTGGACAA
GCTGCAGTACTCTCGGGACTGCACATGTGAGGAGTTCTGCCCCGAGTGCTCGGTGGAGTTCACCCTCGATGTGCG
GTGCAATGAAGACCAGACGCGACATGTCACGTCTCGAGACCTCATCTCCAACAGCCCCGGGTCATTCCGGTGAC
ATCCCGGAACCGAGATAATGACCCCAATGACTACGTGGAGCAGGATGACATCCTCATCGTCAAGTTGAGAAAGGG
CCAGGAGCTGAGACTTCGAGCCTATGCCAAAAAGGGCTTTGGCAAGGAGCATGCCAAGTGGAACCCTACTGCAGG
GGTGGCTTTTGAATACGATCCAGACAATGCCCTGAGGCACACAGTGTACCCCAAGCCCGAGGAATGGCCAAAGAG
TGAGTACTCGGAGCTGGATGAGGATGAGTCGCAGGCTCCCTATGACCCCAACGGCAAGCCAGAAAAGGTTTTACTA
CAATGTGGAGTCCTGTGGCTCTCTGCGTCCTGAAACCATTGTCCTGTCAGCCCTCTCAGGATTGAAGAAGAAACT
GAGTGATTTACAAACTCAATTAAGCCACGAGATCCAGAGTGATGTGCTAACCATAAATTAACTGCAGCTTGCCTG
CTTCAGCAAAAACGGAGATTCAGGCCAGCAGCTGGATATGGGGGTCTCTCTTCAGACTCTTCTCGTTTCTGAGAA
TCTAGTCTACTGTTGGTTGAGCTTCTTGGCAGGACATCAGTACCAACTAGAAGTGGGTCATAGATAGATTACCAG
GGATGCAGTGGTGTTTAGGCAGGATAGGTCTTTACTGGCCCTGACTGCTGTTAATAATTGGCAGCAGTGCTCCCC
AGATCCCAGAAGGTCCCTGCTGGAGTGTTTCCAGTGCACCTGTAGGGAACCAACTAGACTTCTCTCCTGGTTAGT
CCAGCTCTTTACTCTAAACCCTTTCTGTCCAAAATGAGTCATTTTCAGTTGTACCTTAGATGTCTGGTGTTGAGG
ATCAAGTGCCATAGCCTTTATTCAGGGGGGCCTATAAACCCTTCCAGTTCTTGCCCCAGGGCTGGCCTGCTAGCGC
TTCAAATTCCCAGGTGTCCCTAATTTGAGAAGTAACCTTTTGGAATAGCATTAGACCCTGGCTGTCCCCTCCCCA
CCAAATAAACATGATATTTCATTCTCTGTCCAGCAGTCATGAACCCCTTCACCTCCAATGACCTGATCATTTAGT
TTGGTGGGGGTGGGGGTGGGGGTGGGGGTGGAAGCAGCCGCAGGAGCAAGGGCCCCTCCCACATACACAGGAGGA
GTATTTCATTTCTCCTTAATGAAGGCTCTGGCCCTAACCCCTCAGCACTGTCTCCAGATAGGAACATGCACAAAG
CAGTTAATTAGGCAGCCTGGAGAAAACCAGAGATCCAGTACAGAAAGGAAAGGATATTTATTGATTAACAGAAGT
TGTCTTTTTAAAAGTGTTTATTTTTGGCAATAAAGAGCACAACAT

## FIGURE 4535

CCCGGCGCCGCCGCCGCCCTGCCGCCCCCGCCAGCCGCGCCGTGACGCGGGCATGAGCCTGCTCCGCGGCGCCGC
TGAGCAGGCGCTCCTGGCCCGGGCCTCGGCGCCCAGCAGGCGCGGGGCGAAGGAGCTGCTAGAACAATGCTGAGG
CGGGTGAGGTGAGGAGCAGCCCCTCGCGGCAGCCCCGACAGAGTGTCTGGAACAGGTGATTGGAGGAGCCGGAGA
CCCAGGCACCTGGGCATCCTTCCCCTCGCCTCTGCCAGGCCCCGCGCCCCTAAAAGGTGGGAAAACC**ATG**GCGAC
CAATTTCAGTGACATCGTCAAGCAAGGCTACGTGAAGATGAAGAGCAGGAAGCTCGGGATCTACCGGAGGTGCTG
GCTGGTGTTCCGGAAATCCTCCAGCAAGGGGCCCCAGCGGCTGGAGAAGTATCCAGATGAGAAGTCGGTGTGCCT
CCGGGGCTGCCCCAAGGTGACTGAGATCAGCAACGTCAAGTGTGTTACGCGGCTCCCCAAGGAGACCAAGCGGCA
GGCGGTGGCCATCATATTCACTGATGACTCGGCACGTACCTTCACCTGCGACTCAGAGCTAGAGGCAGAGGAGTG
GTACAAGACACTATCTGTGGAGTGTCTGGGGTCCCGCCTCAACGACATCAGTCTGGGAGAACCTGACCTCCTGGC
CCCAGGGGGTGCAGTGTGAACAGACAGATCGCTTCAATGTCTTCCTGCTGCCCTGCCCCAACCTGGACGTGTATGG
CGAGTGCAAGCTGCAGATCACCCACGAGAACATCTACCTCTGGGCATCCACAACCCCCGTGTGAAGCTCGTCTC
GTGGCCCCTCTGCTCACTGCGCCGCTATGGCCGGGATGCCACACGCTTTACCTTCGAGGCTGGCCGGATGTGTGA
TGCTGGGGAAGGACTCTATACCTTCCAGACACAAGAGGGGGAGCAGATTTACCAGCGCGTCCACAGTGCCACCCT
GGCCATCGCAGAGCAGCACAAGCGGGTCCTGCTGGAAATGGAGAAGAACGTGAGGCTGCTGAACAAGGGCACGGA
ACATTACTCGTATCCCTGCACACCCACGACCATGCTGCCGCGCAGTGCCTACTGGCACCACATCACTGGTTCCCA
GAACATCGCCGAAGCCTCCAGCTATGCTGGTGAGGGGTATGGGGCAGCCCAGGCCAGCTCGGAAACAGACCTCCT
CAACAGATTCATCCTGCTAAAGCCAAAGCCCAGCCAGGGGGACAGCAGTGAGGCCAAGACCCCATCCCAG**TGA**CC
ACAGTGCTGGCGAGCACCGATGACTGCTGGGGGGCTGCCTGCTGCGGGGCTGGCTGCAGTGTACCGTGGACAGCCT
CAGGGGGGCTGTCGGCCAAGAGCCTGGAGAAAGGGAGCAAGCTGCCCCCTCCTTGCCCCCAAGGATGAGGCTGGAC
TGAGGCAAAGGGCTGGCCACACCACCTGAGCATGTGTGAGGGGTTGGAGCTACCGTGGGACTATATACTGTTAAT
GATTTTAATATATATGGCTTATGACATACTCTGTATCAATGAGATCCCCTCACCCTCACCCCATCCTTCCCCACC
AATACACACAAATTTTTTAATCCCATGACCAGGCCACGGTCAAGGCTGTTTTTGAGTATGAGTGCAGTCGTGTCC
ATCCTCCATGGCACAGCCCTCCTGCTGCCAGGACCTGCTTGAACTACCAGGGCCACAGGAGGGGGATAATCAGAG
CTTGAGGCTGGCACTCTGACTGCTGGCTTTTCCCAAACAGCCCAAGGGCCGGAACAGCAGGTGGCTTCTCAGTTC
CTCTGGGCCTGGAGTGACACAGGAAGGATCTGCACTTCCTCTGTGCTGCTTGCCAGCCTTGCAGTTGGAGTTTTA
AGCAGAGGTGACATCTGGTTGACGCCTCAGGTGAAAATCTGGTTTTAAAATGTAACTTCTGCACAGGCTCCTTCC
TGCTTTGTAGGCTGGGAAGATGCCCCTGGGGTAGGGGTGCTGATTACCTCAGCCATGTGGAGGAAGGCTGGAGCT
TGTTCCTGCCCCAGGAATAGGCCAGGAGGGAAGGCCGCAGCAGGACTGCCGTGGGGAGCACCCCTGCTGCCCCCC
TCTCACTGACCAGGGGTGGACAATGCCCAAGCAGAGGGAGCCCCCTTGCCCTGTTTGGCCACCCTCTGGCCAGCC
AAAAGCACTCTGAAACCAAGACCTTCCCATTCCTCCTCCCCACATGGTGCTGAGGCTCCCTGCTGCAATGCAATT
AAAGCAATTGATTTTCTAGTGCTGGTATTTGTTGACTACCATGCAGAAGGGCTATCTTTCTATTCACGTCAAACT
TTTGGTTGTGTGGGGTTTTTTGTTGTTTTTGGGTTTTGTTTTTTAATACTTTAGGGTCCTGATTTGTGGGAACA
GACCTTCTTGTAAATAACCACTATTTGAGTTGTGGCAGGAGGATGATAAAGCACGCGGCCCCTCCCAAAGGAGCC
CTTGAGCTAGGGAGGTGGTGCAGTCAGCCTCGCTCTCAACGTGACCCGGGGAATGACCACCCAGAGGGATGAGCT
AGCCTGTAGAGGGGAACTGGGGTCCAAAGGTCTTTGGGGAGGGAGGCAGAGCTGGCTGGCTCAGCTAAGTGGCAC
GATGACGCATGAAGGAGATTATGTTGTGCTCTTTATTGCCAAAAATAAACACTTTTAAAAAGAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAA

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# FIGURE 4536

MATNFSDIVKQGYVKMKSRKLGIYRRCWLVFRKSSSKGPQRLEKYPDEKSVCLRGCPKVTEISNVKCVTRLPKET
KRQAVAIIFTDDSARTFTCDSELEAEEWYKTLSVECLGSRLNDISLGEPDLLAPGVQCEQTDRFNVFLLPCPNLD
VYGECKLQITHENIYLWDIHNPRVKLVSWPLCSLRRYGRDATRFTFEAGRMCDAGEGLYTFQTQEGEQIYQRVHS
ATLAIAEQHKRVLLEMEKNVRLLNKGTEHYSYPCTPTTMLPRSAYWHHITGSQNIAEASSYAGEGYGAAQASSET
DLLNRFILLKPKPSQGDSSEAKTPSQ

**FIGURE 4537**

ATTTTGTGGGTGGGGCTTCAGGTGCCAGCCAGCTGAAGGATGGCCACCCCTGTGGTCACCAAGACAGCCTGGAAG
TTGCAAGAGATCGTCGCGCATGCCAGCAACGTGTCCTCACTGGTGCTGGGCAAAGCCTCCGGGCGGCTGCTGGCT
ACAGGCGGGGATGACTGCCGCGTCAACCTGTGGTCCATCAACAAGCCCAACTGCATCATGAGCCTGACGGGCCAC
ACATCCCCAGTGGAGAGCGTCCGCCTCAACACCCCCGAGGAGCTCATCGTGGCCGGCTCTCAGTCGGGCTCCATC
CGTGTCTGGGACCTGGAAGCTGCCAAAATTCTTCGCACACTCATGGGACACAAAGCCAACATCTGCAGCCTGGAT
TTCCACCCGTACGGCGAGTTTGTAGCCTCTGGTTCCCAGGACACAAACATCAAGCTCTGGGACATCAGGAGGAAA
GGCTGTGTCTTCCGATACAGGGGGCACAGCCAGGCCGTGCGGTGTCTCCGGTTCAGCCCCGATGGGAAGTGGTTG
GCGTCGGCCGCAGATGACCACACCGTGAAGCTCTGGGATCTCACTGCCGGCAAGATGATGTCTGAGTTCCCTGGT
CACACGGGGCCTGTCAACGTGGTCGAGTTTCACCCCAACGAGTACCTCCTGGCCTCCGGCAGCTCTGACAGGACA
ATCCGCTTCTGGGACCTGGAGAAGTTCCAGGTGGTGAGCTGCATCGAAGGGGAGCCTGGGCCCGTCAGGAGCGTC
CTCTTCAACCCAGACGGCTGCTGCCTGTACAGCGGCTGCCAGGACTCACTGCGTGTCTACGGCTGGGAACCTGAG
CGGTGCTTTGATGTGGTCCTCGTCAACTGGGGCAAGGTGGCCGACCTGGCCATCTGCAATGACCAGTTGATAGGT
GTGGCCTTCTCCCAGAGCAACGTCTCCTCCTACGTGGTGGATCTGACGCGTGTCACCAGGACTGGCACGGTGGCC
CGGGACCCTGTGCAGGACCACCGGCCCCTGGCACAGCCACTGCCCAACCCCAGCGCCCCCCTCCGGCGCATCTAT
GAGCGGCCCAGCACAACCTGCAGCAAGCCTCAGAGGGTGAAGCAGAACTCAGAGAGCGAGCGCCGCAGCCCCAGC
AGCGAGGATGACCGGGACGAGCGCGAGTCCCGCGCGGAGATCCAGAACGCCGAGGACTACAACGAGATCTTCCAG
CCCAAGAACAGCATCAGTCGGACGCCACCCCGGAGAAGTGAGCCCTTCCCTGCACCCCCAGAGGACGACGCAGCC
ACAGCAAAGGAGGCAGCAAAGCCCAGCCCTGCCATGGATGTGCAGTTCCCGGTGCCAAATCTGGAGGTCCTGCCC
CGGCCCCCAGTGGTTGCTTCCACACCTGCACCCAAGGCTGAGCCTGCCATCATCCCTGCCACCCGGAACGAGCCC
ATCGGGCTGAAGGCCTCCGACTTCCTGCCCGCCGTGAAGATCCCCAGCAGGCCGAGCTGGTGGACGAGGATGCC
ATGTCACAGATCCGCAAAGGCCACGACACCATGTGTGTGGTGCTCACCAGCCGCCACAAGAACCTGGACACTGTG
CGGGCTGTGTGGACCATGGGCGACATCAAGACGTCGGTGGACTCCGCTGTGGCCATCAACGACCTGTCGGTGGTG
GTGGACCTCCTGAACATCGTCAACCAGAAAGCCTCCCTGTGGAAGCTGGACCTGTGCACCACCGTCCTGCCACAG
ATTGAGAAGCTTCTGCAGAGCAAGTATGAGAGCTACGTCCAGACGGGCTGCACCTCCCTGAAGCTGATCCTGCAG
CGGTTTCTGCCCCTCATCACAGACATGCTGGCGGCCCCACCCTCTGTGGGTGTGGATATCAGCAGGGAGGAGAGG
CTGCATAAGTGCCGGCTCTGCTACAAGCAGCTTAAGAGCATCAGCGGCCTGGTCAAGAGCAAGTCAGGCCTGAGC
GGCCGCCATGGCAGTACCTTCCGCGAGCTGCACCTGCTCATGGCCAGTCTGGACTGAGGAAAGCAGTGGGCAGGG
GCGCTCGGCAGCCCACAGGGCCTGGCCTCAGCCCCCACTCCTGTTCCTTGTGCACCCACTGGCCCATGAGCCTCT
GCCTGGCCCCTGCTGCTGTCCTGTGGCCGTCCTGGAGGAGGTGATGCTGGTCCCTGGCCACCTCTACAGCCCTGA
ACTCTTGAGACAACTCTCTCCAGCAATAGCTGCCCAGCTTTGCCCAACTGTTGCTTCTTGGGGCAGCGAACTGAG
CCCTGGGGCTGCTGCTGTAATTTATAAGGCAAATTTTATTAAATTTGTAACTATT

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# FIGURE 4538

GAGGGCGCTTCCGGCACAGCGGAACTCCGGGTGCCGGTTGAGGTTGCTGGTGGACCTGCTCTGGTGGTCTTGGAT
GAGGCCCCATGAGCGCGGCGCCCCTGGTGGGCTACAGCAGCAGCGGCTCCGAGGATGAGTCCGAGGACGGGATGC
GGACCAGGCCGGGGGATGGGAGCCACCGTCGTGGCCAGAGCCCCCTTCCCAGGCAGAGATTTCCAGTACCTGACA
GTGTGCTGAACATGTTCCCGGGCACCGAGGAGGGGCCTGAAGATGACAGCACAAAACACGGGGGACGGGTGCGCA
CCTTCCCCCACGAGCGAGGCAACTGGGCCACCCACGTCTATGTACCATATGAAGCCAAGGAGGAGTTCCTGGATC
TGCTTGATGTGTTGCTGCCCCATGCCCAGACATATGTCCCCCGGCTGGTAAGGATGAAGGTGTTCCACCTCAGCC
TGTCCCAGAGTGTGGTTCTGCGCCACCACTGGATCCTCCCCTTCGTGCAGGCTCTGAAAGCCCGTATGACCTCCT
TCCACAGATTCTTCTTTACTGCCAACCAGGTAAAGATTTACACCAATCAAGAGAAAACCAGGACCTTTATTGGGC
TTGAGGTCACTTCAGGGCATGCCCAGTTCCTGGACCTGGTTTCAGAGGTGGACAGAGTCATGGAGGAATTCAACC
TCACCACTTTCTACCAGGATCCTTCTTTCCACCTCAGCCTGGCCTGGTGTGTGGGTGATGCACGTCTCCAGCTGG
AGGGGCAGTGCCTGCAGGAACTACAGGCAATCGTGGATGGGTTTGAAGATGCTGAGGTGCTGCTGCGCGTGCACA
CTGAGCAAGTCCGCTGCAAGTCTGGGAACAAGTTCTTCTCGATGCCTTTGAAGTGAGCACCAGAGGCCTTCCTCC
TCCAGGGCCCTCTGCAGACCAGGCTGAGATGGAGGAACCTGCTAAAATCGATGGAGATGCTTCTAGCCTCCCAGT
AGGAGGCCCCAGCCATGCCTTCAACCTGGCAGGAGGTGTAGCCACTCCTCATCCTCCCTGAGTGCTGATATTCTC
TCTCTCTCTTTCTCTTCCTCTTCTTTCTCTCTCTTCTCCTCTCTTTCTCTCCTCTGGCTCTCTTCCTCTCCTCTC
TTCCTCTCTTCTCTCTTCCTCTCCTCTCTCTCTTCCTCTTCTCTCTCTTTCCCTCCTGTCTCTCCTCCCCTCCTC
TCTATCTCTCCTCTCTCTTACTCTCCTCTCTCTAACCCTCCTGGCTTTCCTTGCCCTCCTCTCTCTTCCTCTCCT
ATCTCTCTTCCTCTCCTCTCTCTTCCCTTCCTGTCTCTCTTCCCCTCCTCTCTCTCTTCCTGTCCTCTATCTCTT
CCCCTCCTCTATCTCTTCCTCTCCTCTCTCTCTTCCTCTCCTCTCTCTCTCTTGCTTTCTTCTCTCTCTCCTGTC
TCGGCTGTTGTGGGTTGCAGGTTGGGTGCTGCTGTTGTGGTCCTTCCCAGAAACTGCCAGTAGAGGGCAGCCTGG
GCATCCTAATGCTTACTCTGGTTGTTACACAAAGAAAATATTGGGGTCACTGGCGAGCCCACCCACACTCACCAG
AATCTCCACTGTAGTCCCCCTAACAAACAGCCCTTCACTTCCTCTCCCACTTCAGCAATTTGTATTTTGATGCCA
TTGGCCTCAGATCAGAGTGTTTTAAATCATCACGCCCTGGCTTATCCCTGGTCGAGCCAGGACACGGGGTGCTTC
AGTGGGTCTGTCACCCTCTCTCCTTGAAGCATGTTGCTTTTATTTATTTACTTTTACTCTCACCCTGCTCCTGTA
CCAGCAGGGGCCACTTCAAAGCCAAGGTACAGGGTGATAACTTGTGGTCCAGCATCAGTTTTCTCCACTTCTTTC
TCCCACTCACCCCCAGCAAGGTGCCTGGGGAGACTTGAGCAGATGTTTCATTTTGGCCTGGCCAGTGGCTGAAAG
CCAGGCCTCCAATGCACTGTGACCTCTGGCTTCCCCAGCAGCTTTCCCAGAGAGGCAGAGGGGCCTTCCACAGCC
CGGGTTCTCCTGCTGCCTCCTGCCTGCTGCAGCTGCAGGCATTCTGAGGGGCAACGTGGAGGAAGGGCCAGGGAT
GCATGGGATTTTAATTGTTTCATCACACCTTCCCCGTGGCAAAGAAACAGTCAGTCCTCTTCAGGTGTCTTCTGG
ATTTCTGGTGATGGACAGAGAAATCTTTTTACAGTTTCAAATTATGTTCAACAAATAAAAATTGCATTTTT

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# FIGURE 4539

CCGCTTCCCCGTCTTGTACACCCCTAACTCCTGAGGCTCCTCCGAATCACGCGAGTGGAAGCGGAGAAGCTCAAG
TGGCCGCC<u>ATG</u>TCAGAGGCTTATTTCCGAGTGGAGTCGGGTGCGCTGGGGCCTGAGGAGAACTTTCTTTCTTTGG
ACGACATCCTGATGTCCCACGAGAAGCTGCCGGTGCGCACGGAGACCGCCATGCCTCGCCTTGGCGCTTTCTTCC
TGGAGCGGAGCGCAGGCGCCGAGACTGACAACGCGGTCCCACAGGGTTCCAAGCTTGAACTACCCTTGTGGCTGG
CAAAAGGACTTTTTGACAACAAGCGACGGATCCTTTCTGTGGAACTCCCCAAGATCTACCAAGAGGGTTGGAGGA
CTGTGTTCAGTGCAGATCCCAATGTGGTGGACCTCCACAAAATGGGGCCCCATTTCTACGGGTTTGGCTCCCAGC
TCCTGCATTTTGACAGTCCCGAGAATGCAGACATTTCCCAGTCTCTGCTGCAGACTTTTATCGGACGTTTTCGCC
GCATCATGGACTCCTCACAGAATGCTTACAACGAAGACACTTCAGCCCTGGTAGCCAGGCTAGACGAGATGGAGA
GGGGCTTATTTCAAACAGGGCAGAAAGGACTGAATGACTTTCAGTGTTGGGAGAAGGGGCAGGCTTCTCAGATCA
CAGCTTCCAACCTCGTTCAGAATTACAAGAAGAGAAAATTCACTGATATGGAAGAC<u>TGA</u>AAGCCGGAAGAACACA
GAATGGCTCCTCACAGACGTATCCCTCCGTGTGTCCTTGATAGGAGCTGGTTGACCTTGTACAGAACCAGAATCC
TGTCCCATTTCATGGCTTATTTCCTGTGGCCATAGAGAATTATAGGGAACTGGACATGCTGGAGGATGTGGGTGT
CCCTGGCTCTGTGAGTCTTCCAGGACCGTCCCACCCTGCTGACCCACAGCCCAGGCCCTTTAACCCAAGAACCCA
TGGCCAAGGAGAAATCAAAGTCCTTCCTAAATAAGAATCACTGCCATATAATATATCACAGTAGAGTTGCAACTG
AGATTCCTTGTGTCTGGGAGTTTGGACAGCTTCAGATGTACAGTTTCACTAGCCACAAAGCACAGGTACAAACTG
GGTCATCGCCTGTTCACAAAATGCTCTCTTGATCTTATTTGCCTCATCTTCCTCATGGTTGTACAGAGGATAGCA
CCCCACCATGCCAGCCTGACTTGGAGATATCTCCTGCTGCCTGCCTGCAGGGAGTTACCCCAGTTTCCAAAAACA
GTCGCCCAGATAAAGGAGGAAAAGGGAAAGGCAGACGAATGGCATGGCTTTTACTAAAGAAAAGATGTTGGCCTC
ATACTCTATACTCAGGGCTTAATGAACTGGAATCTGCATAACTCAGCAGTCAACCCAGAAGGGAAATGGTTAAAC
TGAGCTTGTTATTGCCTCGGAGAGCCTAAGAGCACCCGCACACTTAATTCTACTCCCTGTCTAGAAAAGCTGTCA
GGGAGTCGTTTGGAATTGCAATGTAGTTATTAAGGGCTGTTAACCAGCCTGCATTACATCTGGAAGTCAGGACTT
GGGTGCTGACTATGAAGGGCCCTGTTTTCAAAATCTAACATTGCAAGTGTAAATGGGCAAGAAGCCTCCGTTGTG
CTTTTTTTTTCCTCTTCAGTAACTTTTGCAACATTATTGCATAGAAGATCCCTGACCATTTACTAGGAACCTGGT
TAAGCAAGCACTAATCTCTTTTCCTGGAGATCAAGGATGCAACCTCAGGTTGAGAAAGAAACAGGGTTCCCTGGG
CCCATTAGACTGTTTGCAGGGCATCACTGCTTCCCCCTGACACCTCACAACTAGCAAAAATTGTCTTTGTCTTTG
GAAATTATAGAGGGATTTGGGTATCCAGATTGTGCAGATGCAAACTTAGGCTGTCTTGATGCAAACTTAGAACCA
CAGAAATGCTTTTAAAATGCCTGTTTTAAGATGGAATTGTTGTTTTTATAATTTGATTTTAGTGCTAAATAAATG
ATTGGCTTTGTACATGAATATGTTCTGTACAAGTGCTCTTTCACTAGTACTACAGATAATCAAAGCTATCAGAAT
TGTGTCTTTGATCATATTTGACGGTAATACACAAATAAATCCATGTTTTAGCAAAAAAAAAAAAAAAAAAAAAAAA
A

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## FIGURE 4540

MSEAYFRVESGALGPEENFLSLDDILMSHEKLPVRTETAMPRLGAFFLERSAGAETDNAVPQGSKLELPLWLAKG
LFDNKRRILSVELPKIYQEGWRTVFSADPNVVDLHKMGPHFYGFGSQLLHFDSPENADISQSLLQTFIGRFRRIM
DSSQNAYNEDTSALVARLDEMERGLFQTGQKGLNDFQCWEKGQASQITASNLVQNYKKRKFTDMED

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# FIGURE 4541

GGTCCACC**ATG**GCCCTGCTGCACTCCGGCCGCGTCCTCCCCGGGATCGCCGCCGCCTTCCACCCGGGCCTCGCCG
CCGCGGCCTCTGCCAGAGCCAGCTCCTGGTGGACCCATGTGGAAATGGGACCTCCAGATCCCATTCTGGGAGTCA
CTGAAGCCTTTAAGAGGGACACCAATAGCAAAAAGATGAATCTGGGAGTTGGTGCCTACCGGGATGATAATGGAA
AGCCTTACGTTCTGCCTAGCGTCCGCAAGGCAGAGGCCCAGATTGCCGCAAAAAATTTGGACAAGGAATACCTGC
CCATTGGGGGACTGGCTGAATTTTGCAAGGCATCTGCAGAACTAGCCCTGGGTGAGAACAGCGAAGTCTTGAAGA
GTGGCCGGTTTGTCACTGTGCAGACCATTTCTGGAACTGGAGCCTTAAGGATCGGAGCCAGTTTTCTGCAAAGAT
TTTTTAAGTTCAGCCGAGATGTCTTTCTGCCCAAACCAACCTGGGGAAACCACACACCCATCTTCAGGGATGCTG
GCATGCAGCTACAAGGTTATCGGTATTATGACCCCAAGACTTGCGGTTTTGACTTCACAGGCGCTGTGGAGGATA
TTTCAAAAATACCAGAGCAGAGTGTTCTTCTTCTGCATGCCTGCGCCCACAATCCCACGGGAGTGGACCCGCGTC
CGGAACAGTGGAAGGAAATAGCAACAGTGGTGAAGAAAAGGAATCTCTTTGCGTTCTTTGACATGGCCTACCAAG
GCTTTGCCAGTGGTGATGGTGATAAGGATGCCTGGGCTGTGCGCCACTTCATCGAACAGGGCATTAATGTTTGCC
TCTGCCAATCATATGCCAAGAACATGGGCTTATATGGTGAGCGTGTAGGAGCCTTCACTATGGTCTGCAAAGATG
CGGATGAAGCCAAAAGGGTAGAGTCACAGTTGAAGATCTTGATCCGTCCCATGTATTCCAACCCTCCCCTCAATG
GGGCCCGGATTGCTGCTGCCATTCTGAACACCCCAGATTTGCGAAAACAATGGCTGCAAGAAGTGAAAGTCATGG
CTGACCGCATCATTGGCATGCGGACTCAACTGGTCTCCAACCTCAAGAAGGAGGGTTCCACCCACAATTGGCAAC
ACATCACCGACCAAATTGGCATGTTCTGTTTCACAGGGCTAAAGCCTGAACAGGTGGAGCGGCTGATCAAGGAGT
CTTCCATCTACATGACAAAAGATGGCCGCATCTCTGTGGCAGGGGTCACCTCCAGCAACGTGGGCTACCTTGCCC
ATGCCATTCACCAGGTCACCAAG**TAA**TGTCCCTGGTGCGAGGAAACAGAGACAACCTTTCTGTCTTCAGCCTCTG
CTATTGAGAGCTTCACACAGACAATGAGAGAGGGTGGATGGTGGTGAGTGGATCATTTCTTTCAGCCACAGTGTG
TAACACTCAGCATTTGAATGTTTCTCAGAAAAGAACATGTAGTGACACAGGGCAGAGGCATCCATGGCTGGCGTC
TGGAATATTAAACCAAACTCTCCCCGGTCCTTTTTTCTCCAACTTTTCTCAAAGAGTTTACATGTGCAAGAAAGT
CATCGCACCAAAAAACCTGTCAATTATGCCATTGCAATATTTCAGAAGCTTTAACTGAAGTGTCAGGTTCCTCGT
GAGAAACAGCACACGTTAGAGGCTTTGAGAGAAGGCCTAGTTCTGTCATGAGTAGTCGGCCTCGTGTCTGTCCTC
CCATCTTGGAACAACCTTATCAACAGGCCGCACTGCAGAAATGATGTTTTATGAAAACCAATGAGGCTGCTGCCA
CTCCAGCAAGGGAAATAATGCAGTTTCCTGTCTTATTTAAGAAAAAGAGAAGGCTCTCTTTTCTCCCTTGTCATT
GCCGTTCTTTTCCTTACACGCAAAGATTTTTTAACTATTGCAGATTTTCATCCCATTCTACTGCTTGATTGACCA
TCAACTCCATCCTATCGAGATTTATTTAAGAATGAAGAACATAATTTTCTGCTGATGCTGTACCCTCACCCTTTT
CAGCAAAGAATAGTGGAGAGTAGGAAACTGTACTTTATCTCGGCATCCTCTTGAATGATAGTGCAAGTTTCTCCA
GTTGGGATGTTGTCTCTGCCCGGTTGGACCTCCTCCCTTTGTTGAATGTGGTGTGCAGCCTCTCATCTCACACTG
TGAGTCCAGCGGCGCAGGGTGGTACCAGGAAAGAGGATATTCTAGGCTTTGCGTGCTGCTAGCTGGGTTCAGGCT
TCACCCACTGGAAAGAACCACCATCTGCTCTAACCATGTAGACTTATTGCGGCCTGGTTTCTCTGTTACAATAAA
ATTACTGTAGACCC

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# FIGURE 4542

MALLHSGRVLPGIAAAFHPGLAAAASARASSWWTHVEMGPPDPILGVTEAFKRDTNSKKMNLGVGAYRDDNGKPY
VLPSVRKAEAQIAAKNLDKEYLPIGGLAEFCKASAELALGENSEVLKSGRFVTVQTISGTGALRIGASFLQRFFK
FSRDVFLPKPTWGNHTPIFRDAGMQLQGYRYYDPKTCGFDFTGAVEDISKIPEQSVLLLHACAHNPTGVDPRPEQ
WKEIATVVKKRNLFAFFDMAYQGFASGDGDKDAWAVRHFIEQGINVCLCQSYAKNMGLYGERVGAFTMVCKDADE
AKRVESQLKILIRPMYSNPPLNGARIAAAILNTPDLRKQWLQEVKVMADRIIGMRTQLVSNLKKEGSTHNWQHIT
DQIGMFCFTGLKPEQVERLIKEFSIYMTKDGRISVAGVTSSNVGYLAHAIHQVTK

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# FIGURE 4543

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ATCTGCAGTGGAGCCGCCACCAAAATGCAGATTTTCGTGAAAACCCTTACGGGGAAGACCATCACCCTCGAGGTT
GAACCCTCGGATACGATAGAAAATGTAAAGGCCAAGATCCAGGGTAAGGAAGGAATTCCTCCTGATCAGCAGAGA
CTGATCTTTGCTGGCAAGCAGCTGGAAGATGGACGTACTTTGTCTGACTACAATATTCAAAAGGAGTCTACTCTT
CATCTTGTGTTGAGACTTCTGGTGGTGCTAAGAAAAGGAAGAAGAAGTCTTACACCACTCCCAAGAAGAATAAGC
ACAAGAGAAAGAAGGTTAAGCTGGCTGTCCTGAAATACTATAAGGTGGATGAGAATGGCTTTATGGCAAGCCACT
TTGACAGACATTATTGTGGCAAATGTTGTCTGACTTACTGCTTCAACAAACCAGAAGACAAGTAACTGTATGAGT
TAATAAA
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# FIGURE 4544

ATGGCGGACCTTGATTCGCCTCCGAAGCTGTCAGGGGTGCAGCAGCCGTCTGAGGGGGTGGGAGGTGGCCGCTGC
TCCGAAATCTCCGCTGAGCTCATTCGCTCCCTGACAGAGCTGCAGGAGCTGGAGGCTGTATACGAACGGCTCTGC
GGCGAGGAGAAAGTGGTGGAGAGAGAGCTGGATGCTCTTTTGGAACAGCAAAACACCATTGAAAGTAAGATGGTC
ACTCTCCACCGAATGGGTCCTAATCTGCAGCTGATTGAGGGAGATGCAAAGCAGCTGGCTGGAATGATCACCTTT
ACCTGCAACCTGGCTGAGAATGTGTCCAGCAAAGTTCGTCAGCTTGACCTGGCCAAGAACCGCCTCTATCAGGCC
ATTCAGAGAGCTGATGACATCTTGGACCTGAAGTTCTGCATGGATGGAGTTCAGACTGCTTTGAGGAGTGAAGAT
TATGAGCAGGCTGCAGCACATACTCATCGCTACTTGTGCCTGGACAAGTCGGTCATTGAGCTCAGCCGACAGGGC
AAAGAGGGGAGCATGATTGATGCCAACCTGAAATTGCTGCAGGAAGCTGAGCAACGTCTCAAAGCCATTGTGGCA
GAGAAGTTTGCCATTGCCACCAAGGAAGGTGATCTGCCCCAGGTGGAGCGCTTCTTCAAGATCTTCCCACTGCTG
GGTTTGCATGAGGAGGGATTAAGAAAGTTCTCGGAGTACCTTTGCAAGCAGGTGGCCAGTAAAGCTGAGGAGAAT
CTGCTCATGGTGCTGGGGACAGACATGAGTGATCGGAGAGCTGCAGTCATCTTTGCAGATACACTTACTCTTCTG
TTTGAAGGGATTGCCCGCATTGTGGAGACCCACCAGCCAATAGTGGAGACCTATTATGGGCCAGGGAGACTCTAT
ACCCTGATCAAATATCTGCAGGTGGAATGTGACAGACAGGTGGAGAAGGTGGTAGACAAGTTCATCAAGCAAAGG
GACTACCACCAGCAGTTCCGGCATGTTCAGAACAACCTGATGAGAAATTCTACAACAGAAAAAATCGAACCAAGA
GAACTGGACCCCATCCTGACTGAGGTCACCCTGATGAATGCCCGCAGTGAGCTATACTTACGCTTCCTCAAGAAG
AGGATTAGCTCTGATTTTGAGGTGGGAGACTCCATGGCCTCAGAGGAAGTAAAGCAAGAGCACCAGAAGTGTCTG
GACAAACTCCTCAATAACTGCCTTTTGAGCTGTACCATGCAGGAGCTAATTGGCTTATATGTTACCATGGAGGAG
TACTTCATGAGGGAGACTGTCAATAAGGCTGTGGCTCTGGACACCTATGAGAAGGGCCAGCTGACATCCAGCATG
GTGGATGATGTCTTCTACATTGTTAAGAAGTGCATTGGGCGGGCTCTGTCCAGCTCCAGCATTGACTGTCTCTGT
GCCATGATCAACCTCGCCACCACAGAGCTGGAGTCTGACTTCAGGGATGTTCTGTGTAATAAGCTGCGGATGGGC
TTTCCTGCCACCACCTTCCAGGACATCCAGCGCGGGGTGACAAGTGCCGTGAACATCATGCACAGCAGCCTCCAG
CAAGGCAAATTTGACACAAAAGGCATCGAGAGTACTGACGAGGCGAAGATGTCCTTCCTGGGACATATTCTGAGT
CACCTGAGCCACGATAGAGGCTGGGCTGTCCAGCTGTCACCTAGAATTCATTCCCCAGAGCACTGGCCAGCTGCT
CAGGAGCCCACTGAGTGCCAAGCTTGGCTTGCATCTGCCACAGAACCAGCTCTACCATCTGTGCCAGACCACCAG
ACTGCTTCTCTGAGGAGAGGCCCGCAGCATGGGCAGGCGCCAGTCCTTCGGGCCTGCCATCACTGCTCTGCTAGT
ACATGTCTTAGGCTTTCAACTTCCTCTGGAAAGGAGGCTTTATTAAAGCCCTTTGCTACCCAGAATGACAGATGT
GATAAAGCAGCAAGCCTTCCATTGTGTGACAGCTTGGAAAGGAGGAGCACAGAAGGATGA

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**FIGURE 4545**

GGCACGAGGCAGCGTCAGCTGACCTGGGGAGTCGCGATTCGTGCCGGCCGGTCCTGGTTCTCCGGTCCCGCCGCT
CCCGCAGCAGCC**ATG**TCGTTCTTCCCGGAGCTTTACTTTAACGTGGACAATGGCTACTTGGAGGGACTGGTGCGC
GGCCTGAAGGCCGGGGTGCTCAGCCAGGCCGACTACCTCAACCTGGTGCAGTGCGAGACGCTAGAGGACTTGAAA
CTGCATCTGCAGAGCACTGATTATGGTAACTTCCTGGCCAACGAGGCATCACCTCTGACGGTGTCAGTCATCGAT
GACCGGCTCAAGGAGAAGATGGTGGTGGAGTTCCGCCACATGAGGAACCATGCCTATGAGCCACTCGCCAGCTTC
CTAGACTTCATTACTTACAGTTACATGATCGACAACGTGATCCTGCTCATCACAGGCACGCTGCACCAGCGCTCC
ATCGCTGAGCTCGTGCCCAAGTGCCACCCACTAGGCAGCTTCGAGCAGATGGAGGCCGTGAACATTGCTCAGACA
CCTGCTGAGCTCTACAATGCCATTCTGGTGGACACGCCTCTTGCGGCTTTTTTCCAGGACTGCATTTCAGAGCAG
GACCTTGACGAGATGAACATCGAGATCATCCGCAACACCCTCTACAAGGCCTACCTGGAGTCCTTCTACAAGTTC
TGCACCCTACTGGGCGGGACTACGGCTGATGCCATGTGCCCCATCCTGGAGTTTGAAGCAGACCGCCGCGCCTTC
ATCATCACCATCAATTCTTTCGGCACAGAGCTGTCCAAAGAGGACCGTGCCAAGCTCTTTCCACACTGTGGGCGG
CTCTACCCTGAGGGCCTGGCGCAGCTGGCTCGGGCTGACGACTATGAACAGGTCAAGAACGTGGCCGATTACTAC
CCGGAGTACAAGCTGCTCTTCGAGGGTGCAGGTAGCAACCCTGGAGACAAGACGCTGGAGGACCGATTCTTTGAG
CACGAGGTAAAGCTGAACAAGTTGGCCTTCCTGAACCAGTTCCACTTTGGTGTCTTCTATGCCTTCGTGAAGCTC
AAGGAGCAGGAGTGTCGCAACATCGTGTGGATCGCTGAATGTATCGCCCAGCGCCACCGCGCCAAAATCGACAAC
TACATCCCTATCTTC**TAG**CGTCCTGGCCCAAGGCTCTCAATTGCACTCTTTGTGTGTGTGTGTGTGTGTGTGCGC
GTGTGTGTGCGTGTGTGTGTATGTGGTCTGTGACAAGCCTGTGGCTCACCTGCCTGTCCGGGGTGTAGTACGCTG
TCCTAGCGGCTGCCCAGTTCTCCTGACCCTCTTAGAGACTGTTCTTAGGCCTGAAAAGGGGCTGGGCACCCCCCC
CCACCAAGGATGGACGAAGACCCCCTCCAGAGCAAGGAGGCCCCCTCAGCCCTGTGGTTACAGCCGCTGATGTAT
CTAAGAAGCATGTCACTTTCATGTTCCTCCCTAACTCCCTGACCTGAGAACCCTGGGGCCTGGGGGCAGTTTGAG
CCTCCTCTCCCTTCTGTGGGTCGCTCCCAGAGCCATGGCCCATGGGAAGGACAGAGTGTGTGTGTCCTTGGGGCC
TGGGGGGATGTTGCTCCTCAGCTCCCTCCCTCAGCCCTGCCCCTCTGAGACAATAAAACTGCCCTCTCTAAGGCA
AAAAAAAAAAAAAAAAAAAAAAA

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# FIGURE 4546

MSFFPELYFNVDNGYLEGLVRGLKAGVLSQADYLNLVQCETLEDLKLHLQSTDYGNFLANEASPLTVSVIDDRLK
EKMVVEFRHMRNHAYEPLASFLDFITYSYMIDNVILLITGTLHQRSIAELVPKCHPLGSFEQMEAVNIAQTPAEL
YNAILVDTPLAAFFQDCISEQDLDEMNIEIIRNTLYKAYLESFYKFCTLLGGTTADAMCPILEFEADRRAFIITI
NSFGTELSKEDRAKLFPHCGRLYPEGLAQLARADDYEQVKNVADYYPEYKLLFEGAGSNPGDKTLEDRFFEHEVK
LNKLAFLNQFHFGVFYAFVKLKEQECRNIVWIAECIAQRHRAKIDNYIPIF

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# FIGURE 4547

CGCGCCCCAGGCCGGTGTACCCCCGCACTCCGCGCCCCGGCCTAGAAGCTCTCTCTCCCCGCTCCCCGGCCCGGC
CCCCGCCCCGCCCCGCCCCAGCCCGCTGGGCCGCC**ATG**GAGCGCTGGCCCTTGGCCGTCGGGCGGCGCCTGGCTGC
TCGTGGCTGCCCGCGCGCTGCTGCAGCTGCTGCGCTCAGACCTGCGTCTGGGCCGCCCGCTGCTGGCGGCGCTGG
CGCTGCTGGCCGCGCTCGACTGGCTGTGCCAGCGCCTGCTGCCCCCGCCGGCCGCACTCGCCGTGCTGGCCGCCG
CCGGCTGGATCGCGTTGTCCCGCCTGGCGCGCCCGCAGCGCCTGCCGGTGGCCACTCGCGCGGTGCTCATCACCG
GCTGTGACTCTGGTTTTGGCAAGGAGACGGCCAAGAAACTGGACTCCATGGGCTTCACGGTGCTGGCCACCGTAT
TGGAGTTGAACAGCCCCGGTGCCATCGAGCTGCGTACCTGCTGCTCCCCTCGCCTAAGGCTGCTGCAGATGGACC
TGACCAAACCAGGAGACATTAGCCGCTTGCTAGAGTTCACCAAGGCCCACACCACCAGCACCGGCCTGTGGGGCC
TCGTCAACAACGCAGGCCACAATGAAGTAGTTGCTGATGCGGAGCTGTCTCCAGTGGCCACTTTCCGTAGCTGCA
TGGAGGTGAATTTCTTTGGCGCGCTCGAGCTGACCAAGGGCCTCCTGCCCCTGCTGCGCAGCTCAAGGGGCCGCA
TCGTGACTGTGGGGGAGCCCAGCGGGGGACATGCCATATCCGTGCTTGGGGGCCTATGGAACCTCCAAAGCGGCCG
TGGCGCTACTCATGGACACATTCAGCTGTGAACTCCTTCCCTGGGGGGTCAAGGTCAGCATCATCCAGCCTGGCT
GCTTCAAGACAGAGTCAGTGAGAAACGTGGGTCAGTGGGAAAAGCGCAAGCAATTGCTGCTGGCCAACCTGCCTC
AAGAGCTGCTGCAGGCCTACGGCAAGGACTACATCGAGCACTTGCATGGGCAGTTCCTGCACTCGCTACGCCTGG
CCATGTCCGACCTCACCCCAGTTGTAGATGCCATCACAGATGCGCTGCTGGCAGCTCGGCCCCGCCGCCGCTATT
ACCCCGGCCAGGGCCTGGGGCTCATGTACTTCATCCACTACTACCTGCCTGAAGGCCTGCGGCGCCGCTTCCTGC
AGGCCTTCTTCATCAGTCACTGTCTGCCTCGAGCACTGCAGCCTGGCCAGCCTGGCACTACCCCACCACAGGACG
CAGCCCAGGACCCAAACCTGAGCCCCGGCCCTTCCCCAGCAGTGGCTCGG**TGA**GCCATGTGCACCTATGGCCCAG
CCACTGCAGCACAGGAGGCTCCGTGAGCCTTGGTTCCTCCCCGAAAACCCCCAGCATTACGATCCCCCAAGTGTC
CTGGACCCTGGCCTAAAGAATCCCACCCCCACTTCATGCCCACTGCCGATGCCCAATCCAGGCCCGGTGAGGCCA
AGGTTTCCCAGTGAGCCTCTGCGCCTCTCCACTGTTTCATGAGCCCAAACACCCTCCTGGCACAACGCTCTACCC
TGCAGCTTGGAGAACTCCGCTGGATGGGAGTCTCATGCAAGACTTCACTGCAGCCTTTCACAGGACTCTGCAGAT
AGTGCCTCTGCAAACTAAGGAGTGACTAGGTGGGTTGGGGACCCCCTCAGGATTGTTTCTCGGCACCAGTGCCTC
AGTGCTGCAATTGAGGGCTAAATCCCAAGTGTCTCTTGACTGGCTCAAGAATTAGGGCCCCAACTACACACCCCC
AAGCCACAGGGAAGCATGTACTGTACTTCCCAATTGCCACATTTTAAATAAAGACAAATTTTTATTTCTTCTA

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# FIGURE 4548

MERWPWPSGGAWLLVAARALLQLLRSDLRLGRPLLAALALLAALDWLCQRLLPPPAALAVLAAAGWIALSRLARP
QRLPVATRAVLITGCDSGFGKETAKKLDSMGFTVLATVLELNSPGAIELRTCCSPRLRLLQMDLTKPGDISRLLE
FTKAHTTSTGLWGLVNNAGHNEVVADAELSPVATFRSCMEVNFFGALELTKGLLPLLRSSRGRIVTVGSPAGDMP
YPCLGAYGTSKAAVALLMDTFSCELLPWGVKVSIIQPGCFKTESVRNVGQWEKRKQLLLANLPQELLQAYGKDYI
EHLHGQFLHSLRLAMSDLTPVVDAITDALLAARPRRRYYPGQGLGLMYFIHYYLPEGLRRRFLQAFFISHCLPRA
LQPGQPGTTPPQDAAQDPNLSPGPSPAVAR

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# FIGURE 4549A

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AGTGGCGTCGGAACTGCAAAGCACCTGTGAGCTTGCGGAAGTCAGTTCAGACTCCAGCCCGCTCCAGCCCGGCCC
GACCCGACCGCACCCGGCGCCTGCCCTCGCTCGGCGTCCCCGGCCAGCCATGGGCCCTTGGAGCCGCAGCCTCTC
GGCGCTGCTGCTGCTGCTGCAGGTCTCCTCTTGGCTCTGCCAGGAGCCGGAGCCCTGCCACCCTGGCTTTGACGC
CGAGAGCTACACGTTCACGGTGCCCCGGCGCCACCTGGAGAGAGGCCGCGTCCTGGGCAGAGTGAATTTTGAAGA
TTGCACCGGTCGACAAAGGACAGCCTATTTTTCCCTCGACACCCGATTCAAAGTGGGCACAGATGGTGTGATTAC
AGTCAAAAGGCCTCTACGGTTTCATAACCCACAGATCCATTTCTTGGTCTACGCCTGGGACTCCACCTACAGAAA
GTTTTCCACCAAAGTCACGCTGAATACAGTGGGGCACCACCACCGCCCCCCGCCCCATCAGGCCTCCGTTTCTGG
AATCCAAGCAGAATTGCTCACATTTCCCAACTCCTCTCCTGGCCTCAGAAGACAGAAGAGAGACTGGGTTATTCC
TCCCATCAGCTGCCCAGAAAATGAAAAAGGCCCATTTCCTAAAAACCTGGTTCAGATCAAATCCAACAAAGACAA
AGAAGGCAAGGTTTTCTACAGCATCACTGGCCAAGGAGCTGACACACCCCCTGTTGGTGTCTTTATTATTGAAAG
AGAAACAGGATGGCTGAAGGTGACAGAGCCTCTGGATAGAGAACGCATTGCCACATACACTCTCTTCTCTCACGC
TGTGTCATCCAACGGGAATGCAGTTGAGGATCCAATGGAGATTTTGATCACGGTAACCGATCAGAATGACAACAA
GCCCGAATTCACCCAGGAGGTCTTTAAGGGGTCTGTCATGGAAGGTGCTCTTCCAGGAACCTCTGTGATGGAGGT
CACAGCCACAGACGCGGACGATGATGTGAACACCTACAATGCCGCCATCGCTTACACCATCCTCAGCCAAGATCC
TGAGCTCCCTGACAAAAATATGTTCACCATTAACAGGAACACAGGAGTCATCAGTGTGGTCACCACTGGGCTGGA
CCGAGAGAGTTTCCCTACGTATACCCTGGTGGTTCAAGCTGCTGACCTTCAAGGTGAGGGGTTAAGCACAACAGC
AACAGCTGTGATCACAGTCACTGACACCAACGATAATCCTCCGATCTTCAATCCCACCACGTACAAGGGTCAGGT
GCCTGAGAACGAGGCTAACGTCGTAATCACCACACTGAAAGTGACTGATGCTGATGCCCCCAATACCCCAGCGTG
GGAGGCTGTATACACCATATTGAATGATGATGGTGGACAATTTGTCGTCACCACAAATCCAGTGAACAACGATGG
CATTTTGAAAACAGCAAAGGGCTTGGATTTTGAGGCCAAGCAGCAGTACATTCTACACGTAGCAGTGACGAATGT
GGTACCTTTTGAGGTCTCTCTCACCACCTCCACAGCCACCGTCACCGTGGATGTGCTGGATGTGAATGAAGCCCC
CATCTTTGTGCCTCCTGAAAAGAGAGTGGAAGTGTCCGAGGACTTTGGCGTGGGCCAGGAAATCACATCCTACAC
TGCCCAGGAGCCAGACACATTTATGGAACAGAAAATAACATATCGGATTTGGAGAGACACTGCCAACTGGCTGGA
GATTAATCCGGACACTGGTGCCATTTCCACTCGGGCTGAGCTGGACAGGGAGGATTTTGAGCACGTGAAGAACAG
CACGTACACAGCCCTAATCATAGCTACAGACAATGGTTCTCCAGTTGCTACTGGAACAGGGACACTTCTGCTGAT
CCTGTCTGATGTGAATGACAACGCCCCCATACCAGAACCTCGAACTATATTCTTCTGTGAGAGGAATCCAAAGCC
TCAGGTCATAAACATCATTGATGCAGACCTTCCTCCCAATACATCTCCCTTCACAGCAGAACTAACACACGGGGC
GAGTGCCAACTGGACCATTCAGTACAACGACCCAACCCAAGAATCTATCATTTTGAAGCCAAAGATGGCCTTAGA
GGTGGGTGACTACAAAATCAATCTCAAGCTCATGGATAACCAGAATAAAGACCAAGTGACCACCTTAGAGGTCAG
CGTGTGTGACTGTGAAGGGGCCGCCGGCGTCTGTAGGAAGGCACAGCCTGTCGAAGCAGGATTGCAAATTCCTGC
CATTCTGGGGATTCTTGGAGGAATTCTTGCTTTGCTAATTCTGATTCTGCTGCTCTTGCTGTTTCTTCGGAGGAG
AGCGGTGGTCAAAGAGCCCTTACTGCCCCCAGAGGATGACACCCGGGACAACGTTTATTACTATGATGAAGAAGG
AGGCGGAGAAGAGGACCAGGACTTTGACTTGAGCCAGCTGCACAGGGGCCTGGACGCTCGGCCTGAAGTGACTCG
TAACGACGTTGCACCAACCCTCATGAGTGTCCCCCGGTATCTTCCCCGCCCTGCCAATCCCGATGAAATTGGAAA
TTTTATTGATGAAAATCTGAAAGCGGCTGATACTGACCCCACAGCCCCGCCTTATGATTCTCTGCTCGTGTTTGA
CTATGAAGGAAGCGGTTCCGAAGCTGCTAGTCTGAGCTCCCTGAACTCCTCAGAGTCAGACAAAGACCAGGACTA
TGACTACTTGAACGAATGGGGCAATCGCTTCAAGAAGCTGGCTGACATGTACGGAGGCGGCGAGGACGACTAGGG
GACTCGAGAGAGGCGGGCCCCAGACCCATGTGCTGGGAAATGCAGAAATCACGTTGCTGGTGGTTTTTCAGCTCC.
CTTCCCTTGAGATGAGTTTCTGGGGAAAAAAAAGAGACTGGTTAGTGATGCAGTTAGTATAGCTTTATACTCTCT
CCACTTTATAGCTCTAATAAGTTTGTGTTAGAAAAGTTTCGACTTATTTCTTAAAGCTTTTTTTTTTTCCCATC
ACTCTTTACATGGTGGTGATGTCCAAAAGATACCCAAATTTTAATATTCCAGAAGAACAACTTTAGCATCAGAAG
GTTCACCCAGCACCTTGCAGATTTTCTTAAGGAATTTTGTCTCACTTTTAAAAAGAAGGGGAGAAGTCAGCTACT
CTAGTTCTGTTGTTTTGTGTATATAATTTTTTAAAAAAAATTTGTGTGCTTCTGCTCATTACTACACTGGTGTGT
CCCTCTGCCTTTTTTTTTTTTTTTAAGACAGGGTCTCATTCTATCGGCCAGGCTGGAGTGCAGTGGTGCAATCAC
AGCTCACTGCAGCCTTGTCCTCCCAGGCTCAAGCTATCCTTGCACCTCAGCCTCCCAAGTAGCTGGGACCACAGG
CATGCACCACTACGCATGACTAATTTTTTAAATATTTGAGACGGGGTCTCCCTGTGTTACCCAGGCTGGTCTCAA
ACTCCTGGGCTCAAGTGATCCTCCCATCTTGGCCTCCCAGAGTATTGGGATTACAGACATGAGCCACTGCACCTG
CCCAGCTCCCCAACTCCCTGCCATTTTTTAAGAGACAGTTTCGCTCCATCGCCCAGGCCTGGGATGCAGTGATGT
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# FIGURE 4549B

GATCATAGCTCACTGTAACCTCAAACTCTGGGGCTCAAGCAGTTCTCCCACCAGCCTCCTTTTTATTTTTTTGTA
CAGATGGGGTCTTGCTATGTTGCCCAAGCTGGTCTTAAACTCCTGGCCTCAAGCAATCCTTCTGCCTTGGCCCCC
CAAAGTGCTGGGATTGTGGGCATGAGCTGCTGTGCCCAGCCTCCATGTTTTAATATCAACTCTCACTCCTGAATT
CAGTTGCTTTGCCCAAGATAGGAGTTCTCTGATGCAGAAATTATTGGGCTCTTTTAGGGTAAGAAGTTTGTGTCT
TTGTCTGGCCACATCTTGACTAGGTATTGTCTACTCTGAAGACCTTTAATGGCTTCCCTCTTTCATCTCCTGAGT
ATGTAACTTGCAATGGGCAGCTATCCAGTGACTTGTTCTGAGTAAGTGTGTTCATTAATGTTTATTTAGCTCTGA
AGCAAGAGTGATATACTCCAGGACTTAGAATAGTGCCTAAAGTGCTGCAGCCAAAGACAGAGCGGAACTATGAAA
AGTGGGCTTGGAGATGGCAGGAGAGCTTGTCATTGAGCCTGGCAATTTAGCAAACTGATGCTGAGGATGATTGAG
GTGGGTCTACCTCATCTCTGAAAATTCTGGAAGGAATGGAGGAGTCTCAACATGTGTTTCTGACACAAGATCCGT
GGTTTGTACTCAAAGCCCAGAATCCCCAAGTGCCTGCTTTTGATGATGTCTACAGAAAATGCTGGCTGAGCTGAA
CACATTTGCCCAATTCCAGGTGTGCACAGAAAACCGAGAATATTCAAAATTCCAAATTTTTTCTTAGGAGCAAGA
AGAAAATGTGGCCCTAAAGGGGGGTTAGTTGAGGGGTAGGGGGTAGTGAGGATCTTGATTTGGATCTCTTTTTATT
TAAATGTGAATTTCAACTTTTGACAATCAAAGAAAGACTTTTGTTGAAATAGCTTTACTGTTTCTCAAGTGTTT
TGGAGAAAAAAATCAACCCTGCAATCACTTTTTGGAATTGTCTTGATTTTTCGGCAGTTCAAGCTATATCGAATA
TAGTTCTGTGTAGAGAATGTCACTGTAGTTTTGAGTGTATACATGTGTGGGTGCTGATAATTGTGTATTTTCTTT
GGGGGTGGAAAAGGAAACAATTCAAGCTGAGAAAAGTATTCTCAAAGATGCATTTTTATAAATTTTATTAAACA
ATTTGTTAAACCATAAAAAAAAAAAAA

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# FIGURE 4550

MGPWSRSLSALLLLLQVSSWLCQEPEPCHPGFDAESYTFTVPRRHLERGRVLGRVNFEDCTGRQRTAYFSLDTRF
KVGTDGVITVKRPLRFHNPQIHFLVYAWDSTYRKFSTKVTLNTVGHHHRPPPHQASVSGIQAELLTFPNSSPGLR
RQKRDWVIPPISCPENEKGPFPKNLVQIKSNKDKEGKVFYSITGQGADTPPVGVFIIERETGWLKVTEPLDRERI
ATYTLFSHAVSSNGNAVEDPMEILITVTDQNDNKPEFTQEVFKGSVMEGALPGTSVMEVTATDADDDVNTYNAAI
AYTILSQDPELPDKNMFTINRNTGVISVVTTGLDRESFPTYTLVVQAADLQGEGLSTTATAVITVTDTNDNPPIF
NPTTYKGQVPENEANVVITTLKVTDADAPNTPAWEAVYTILNDDGGQFVVTTNPVNNDGILKTAKGLDFEAKQQY
ILHVAVTNVVPFEVSLTTSTATVTVDVLDVNEAPIFVPPEKRVEVSEDFGVGQEITSYTAQEPDTFMEQKITYRI
WRDTANWLEINPDTGAISTRAELDREDFEHVKNSTYTALIIATDNGSPVATGTGTLLLILSDVNDNAPIPEPRTI
FFCERNPKPQVINIIDADLPPNTSPFTAELTHGASANWTIQYNDPTQESIILKPKMALEVGDYKINLKLMDNQNK
DQVTTLEVSVCDCEGAAGVCRKAQPVEAGLQIPAILGILGGILALLILILLLLLFLRRRAVVKEPLLPPEDDTRD
NVYYYDEEGGGEEDQDFDLSQLHRGLDARPEVTRNDVAPTLMSVPRYLPRPANPDEIGNFIDENLKAADTDPTAP
PYDSLLVFDYEGSGSEAASLSSLNSSESDKDQDYDYLNEWGNRFKKLADMYGGGEDD

4931/6881
# FIGURE 4551

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AGTGCTCGCGGCGGCGGCGACGGCGGCGGGAGGTTCGGTTGTCGCCCGTTGGCCGCGCGGCGCCGCGCTCGGCGG
CCGCCATTGCAGGGAATCCCTGTGCTGATCGTGGGGCATCATATCCTGTATGGGAAAATCATCCACCTGGAGAAA
CCTTTTGCAGTCCTTGTCAAACACACTCCTGGGGATCAGGACTGTGATGAGCTTGGCCGCGAGACTGGCACCCGG
TACCTGGTGACAGCACTCATCAAAGACAAGATCCTTTTCAAAACCCGCCCCAAGCCCATTATCACCAGCGTCCCC
AAGAAAGTATGAAAGAACCTCGGATTTTCCCTAGAGAGCGGCCAACTCCTTGGACTCGTGCTCCGCTGCCACCTC
GAGGACGGCTCGACGGTTCCCTGGGACCACAGGGGGGTCCTGTTCTGAACACAGGCCACCCACTGGGTGTGAACT
CGGATCCCTTCCTTATGGCGGCCGGTTCTCTTGGTGGAAATCTGACCCCATTTCCAAGGAACCCATCTCCTTTTC
CAGCTTCATCAGGCTCATTGGCTTCAAATCCAGCACCTTTCCCGGCTGGTGCTCGTGACCCAAGTATGGCTTCTT
TTCCAAGAGGGATGAATCCCACTGGCACAGGTGCAGTTTCTTTCCCAAGGCCTGGTGGCCTCTTGGGGCCAGGCC
CAGGCCCAGGCCCCACCCTAAACCCTAGGACAGGGGCTCTGCCAGGCCCAGGGCCTCTGTCTAACCCCAGGTTAG
GGGGTCTCCCAGGACCAGGTCCTATGTCCAACCCAAGGGCAGGTGGTCTCCTGGGAGCAGGTCCTGACCCCAGAG
GTGGTGGTCCCATGGGCCCTGGATCTGGACCTAACCTGAGAGCCGGTGTTCTGTTAACCTCTGGGAATGGTCCTC
CCAATCCTAGGCCAGTTGGCCTGGGCCCAGGACCAAACCCCAATCTGAGATCAGGCTTTTAGGGACAAACCCTG
CCCCCAGGTCAGGTGTGTTTCCAGGCCCAGGCCTTGGGCCCAACCCAAGACCAAGTGGCCTGGGCCCAGGCCCTA
ATCTAGATGCCAGAGCAGGTGGCCTCTTGGGCACAGGATCTGGTCTTAACTTAAGAATGGCTGGACCTCAAGGCC
TCGATCTTGCCCCCATTCTAAGAGCAGCAGGTCTTTTAGGAGCAAATTCAGCTTCTTTCTCACAGGCTTCTGGAA
ACATGGGCACAAGCCCATCCTCCATGGCAAGAGTACCTGGCCCCATGGGCCCAAACTCGGGTCCTAGCTCTCGGG
GAATTGGCCTTCCAGGGCCAAATCCATCTCCCATGTCAAGGGCTCCTGGCCCCATAGGCCCTAATTCAGCTCATT
TCTCAAGGCCAGTTGGCCCCATGGGGGTAAATGCCAATCCCTTTCCCAGGGGAGCAGGTTCATCTGCCTTTTCTC
AGTCTTCTGGCACATTGGCATCAAACCCAGCTACCTTCCAAAGGTCCGCTGGCCTCCAGGGCTCAAATCCAACCA
TTTTCCCAAGAGCCTCTGGGCCACTTGGCCCCAACCCAGCTAACTTCCCAAGGGCCACTGGCCTGCAGGGTCCAA
GTCCAACTACCTTCCCAAGGTCTACTGGCCCATTAGGCCCTGGTCAAGTTACTTTCCCCAGGCCAGCTGCCGGGC
ATCTGGGCCCTTCTCCAGCTGGCCCTGTGGGTATCAACCCAGCTCCTTTCACAAGGCCAACTGGGACCCTGGGTC
TCAACCCAGCTTCCTTTCCAAGGATGAATGGCCCTGCAGGCAAGAGTTTCGTCCCATTTCCTAGAGTGGGGAGCC
TCCCTGGCACAAACCCAGCTGCTTTCCCCAGACCAGGGGGTCCAATGGCTGCAATGTACCCAAATGGAATGTTGC
CCCCTTAAACACCATTTTCCCTCCAGGACCACCTTGGTTTCTAGGCACTGTGGTTCTTGGCAGGGGCTGTCTTAG
GTAAAAGGGTAGTTGTGGAGCTACAGTCTGAAGAACATAGCTTGGGCTCAAGTTCAAATGAGCCATCTTTTTCCT
TTGCGTTTTTCTTGACTGAAGGTGAGATGTTATTTGTGGCATGTGAACTGTGGCAGGTGGGAATAATCCTGCCCT
TGAGAGAAAGGATCTCCAGCCTCCCAGAAGCCTGCTGTGCTTTCGTCCCACAGCTTTCTGCCCATTGTTTCTTAC
TAGTTTCTTGAATTGTTCTTGTGGACTTTTCCTCAGGGATACATTGGCCTGCAGGTCCCAGTTCACATGTAGTCC
CCTGCTCACCATTGGAGAATCAGCTCACTGCTCTCTAGAAACGTGGCGTTGGTGAACGGACCATGCTTCCGTAGC
TCTGACCTGGGCAGCTTGGACCTGGTCATCCTCTACTGCCATACCTTTCCCTGGGGGCTTGAACACAGAACAGGG
AGATGGACAACCACTTCAAAGAAAGACCCACCGAATGCAGTTTCTGCTTGACTGACTGGGCCTGCAGCTCCCTTC
TCCTGGGACTTAGAGGTGGCCAGATTTAAGGCCCCTCTACTCATCCAACTCCCTCTTCACTGGTACTCCCAATCA
ATCAAAGAACCTCAAAATTTAAACTGATGTGGATGGGAATATGGGAATTAGGGTGGGGGTGGGGGATGAAGGGAA
GAAATCACTGTGCTTTGTTCGGCCTGGTGTGCAAGGATGGTTGGTGGTTTTCCTGCATTGTATCTTTTCTTACTG
TTTCTTTAATAAATGGGATGAGAGGGC
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# FIGURE 4552

MKEPRIFPRERPTPWTRAPLPPRGRLDGSLGPQGGPVLNTGHPLGVNSDPFLMAAGSLGGNLTPFPRNPSPFPAS
SGSLASNPAPFPAGARDPSMASFPRGMNPTGTGAVSFPRPGGLLGPGPGPGPTLNPRTGALPGPGPLSNPRLGGL
PGPGPMSNPRAGGLLGAGPDPRGGGPMGPGSGPNLRAGVLLTSGNGPPNPRPVGLGPGPNPNLRSGFLGTNPAPR
SGVFPGPGLGPNPRPSGLGPGPNLDARAGGLLGTGSGLNLRMAGPQGLDLAPILRAAGLLGANSASFSQASGNMG
TSPSSMARVPGPMGPNSGPSSRGIGLPGPNPSPMSRAPGPIGPNSAHFSRPVGPMGVNANPFPRGAGSSAFSQSS
GTLASNPATFQRSAGLQGSNPTIFPRASGPLGPNPANFPRATGLQGPSPTTFPRSTGPLGPGQVTFPRPAAGHLG
PSPAGPVGINPAPFTRPTGTLGLNPASFPRMNGPAGKSFVPFPRVGSLPGTNPAAFPRPGGPMAAMYPNGMLPP

4933/6881
# FIGURE 4553

CTCAGTTAGCGGTGGAGAGGCAGTATGTCCGGTTCA**ATG**GCGACTGCGGAAGCTAGCGGCAGCGATGGGAAAGGG
CAGGAAGTCGAGACCTCAGTCACCTATTACCGGTTGGAGGAGGTGGCAAAGCGCAACTCCTTGAAGGAACTGTGG
CTTGTGATCCATGGGCGAGTCTACGATGTCACCCGCTTCCTCAACGAGCACCCTGGAGGAGAAGAGGTTCTGCTG
GAACAAGCTGGTGTAGATGCAAGTGAAAGCTTTGAAGATGTAGGACACTCTTCTGATGCCAGAGAAATGCTAAAG
CAGTACTACATTGGTGATATCCATCCGAGTGACCTTAAACCTGAAAGTGGTAGCAAGGACCCTTCAAAAAATGAT
ACATGCAAAAGTTGCTGGGCATATTGGATTTTACCCATCATAGGCGCTGTTCTCTTAGGTTTCCTGTACCGCTAC
TACACATCGGAAAGCAAATCCTCC**TGA**GGAGGCCTTGCTGAAGTTAGAAAGTGCATCCACTTTGGGGCGAAAACT
AGAGACTTGCTTGGGGGCTGCAGAAGTGCCCTCTCCTCGAATCCTGCCAGTTGCATTCTTCCCCCTTGGAGCCAA
GACGATTGGCCAGACATCACCTCAGATCTGAGACCAGCGTCTTCCATCTCTCAGAGCCTTACTCCCAAAGTACCT
GCTCACTGTTCCGTGTTGAACAATTGCCGGTGTTCCTCTCTTCACTGGTTTCCATGAGTACCCTTATATTTCAC
AACTTTCTGTTCATAAGTTATAGTGACATTGCTCTTTGGTAAAAATGCCTGCTTTCCAATACTTTGATTGCATAT
TAGACATTCTTAACAGGGCGGCAGTCTAGTGTTGAAAGTTTTATTTTTCCATTTTTCTTTTAAGTAAATTTTTTT
TAAAAAATTCTGATTTAGGGCTAGGTGTGGTGGCTCAGGCCTGTAATCCTGGCACTTTGGGAGGCCAAGGTGGGA
ACATCGCTTGAGGCCAAGAGTTCAAGACCAGCCTGGGCAACATAGCGAGACCCCTATCTGTATTAAAAAAAAATC
TGATTTAATTCTTTTATTTATCATAAGGGGTTTAATTCCTGAAGTAAAGGTTTGCACCTATTAAACTTAAAACTG
CCAAATGATTTTTGTTCTTTTATGTGCGTGATAAAAATACAAAGAATGGTGTGGCCACCTCCTCCCTTTCAAGCT
AGGGCAGCAGGTAGCTCTTCCCAGCCCCTGAGCCCAGCCCCTTCCCAAGTGGTGCCGGACAAAAAACTACATGGC
CCTTTCGTGTCTTGGGGGTGGAAAGGGAGGGATGAATTGGGGTGATAGAACCCTGGTGAATTCAGAGTAATCTTT
CTTTAGAAAACTGGTGTTTTCTAAAGAAACAGGATAGGAGTTTAGAGAAGGCACCAAAGCTTTCACTTTGGTTTG
GCACCAGTTTCTAACCATCTGTTTTTTCTACCCTAGCTATCTTTATTGGTAAAATATAAATGTATAATTATGTT
TGTAGAGCTTTACCAAGGAGTTTCCCTCCTTTTTTTGTTTGTTGATTAGCAAATTTTTGATTCTCCATTTTCCAA
AAGTAAGAGACTCCAGCATGGCCTTCTGTTTGCCCCGCAGTAAAGTAACTTCCATATAAAATGGTATTTGAAAGT
GAGAGTTCATGACAACAGACCGTTTTCCATTTCATCTGTATTTTATCTCCGTGACTCCAACTTGTGGGTTTGTTC
TGTTTTTCCATGAGAATAAAATACTGGCGGTTTTTTTTCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAA

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## FIGURE 4554

MATAEASGSDGKGQEVETSVTYYRLEEVAKRNSLKELWLVIHGRVYDVTRFLNEHPGGEEVLLEQAGVDASESFE
DVGHSSDAREMLKQYYIGDIHPSDLKPESGSKDPSKNDTCKSCWAYWILPIIGAVLLGFLYRYYTSESKSS

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# FIGURE 4555

CACACACCCCTACAATCCCCTCCCCCAGCCCCGAGAGACTTTTCTTGACTTCCACCAGTTGCTCCGGCGGGTGAG
AGTGGAGAGGCCCCTCCTTCATCCCCCAGGCTCCCTCCCTTCCTGGAGCTGCAGCCTCAGCATCCTCCGCCCAGC
ACCCCAGGATTCAGGCGTTGGGTCCCGCCCTTGTAGGCTGTCCACCTCAAACGGGCCGGACAGGATATATAAGAG
AGAATGCACCGTGCACTACACACGCGACTCCCACAAGGTTGCAGCCGGAGCCGCCCAGCTCACCGAGAGCCTAGT
TCCGGCCAGGGTCGCCCCGGCAACCACGAGCCCAGCCAATCAGCGCCCCGGACTGCACCAGAGCCATGGTCGGCA
GAAGAGCACTGATCGTACTGGCTCACTCAGAGAGGACGTCCTTCAACTATGCCATGAAGGAGGCTGCTGCAGCGG
CTTTGAAGAAGAAAGGATGGGAGGTGGTGGAGTCGGACCTCTATGCCATGAACTTCAATCCCATCATTTCCAGAA
AGGACATCACAGGTAAACTGAAGGACCCTGCGAACTTTCAGTATCCTGCCGAGTCTGTTCTGGCTTATAAAGAAG
GCCATCTGAGCCCAGATATTGTGGCTGAACAAAAGAAGCTGGAAGCCGCAGACCTTGTGATATTCCAGAGTAAGA
AGGCAGTGCTTTCCATCACCACTGGTGGCAGTGGCTCCATGTACTCTCTGCAAGGGATCCACGGGGACATGAATG
TCATTCTCTGGCCAATTCAGAGTGGCATTCTGCATTTCTGTGGCTTCCAAGTCTTAGAACCTCAACTGACATATA
GCATTGGGCACACTCCAGCAGACGCCCGAATTCAAATCCTGGAAGGATGGAAGAAACGCCTGGAGAATATTTGGG
ATGAGACACCACTGTATTTTGCTCCAAGCAGCCTCTTTGACCTAAACTTCCAGGCAGGATTCTTAATGAAAAAAG
AGGTACAGGATGAGGAGAAAAACAAGAAATTTGGCCTTTCTGTGGGCCATCACTTGGGCAAGTCCATCCCAACTG
ACAACCAGATCAAAGCTAGAAAATGAGATTCCTTAGCCTGGATTTCCTTCTAACATGTTATCAAATCTGGGTATC
TTTCCAGGCTTCCCTGACTTGCTTTAGTTTTTAAGATTTGTGTTTTTCTTTTTCCACAAGGAATAAATGAGAGGG
AATCGACTGTATTCGTGCATTTTTGGATCATTTTTAACTGATTCTTATGATTACTATCATGGCATATAACCAAAA
TCCGACTGGGCTCAAGAGGCCACTTAGGGAAAGATGTAGAAAGATGCTAGAAAAATGTTCTTTAAAGGCATCTAC
ACAATTTAATTCCTCTTTTTAGGGCTAAAGTTTTAGGGTACAGTTTGGCTAGGTATCATTCAACTCTCCAATGTT
CTATTAATCACCTCTCTGTAGTTTATGGCAGAAGGGAATTGCTCAGAGAAGGAAAAGACTGAATCTACCTGCCCT
AAGGGACTTAACTTGTTTGGTAGTTAGCCATCTAATGCTTGTTTATGATATTTCTTGCTTTCAATTACAAAGCAG
TTACTAATATGCCTAGCACAAGTACCACTCTTGGTCAGCTTTTGTTGTTTATATACAGTACACAGATACCTTGAA
AGGAAGAGCTAATAAATCTCTTCTTTGCTGCAGTCATCTACTTTTTTTTTAATTAAAAAAAATTTTTTTTTGAAG
CAGTCTTGCTCTGTTACCCAGGCTGGAGTGCAGTGGTGTGATCTCGGCTCACTGCAACCTCTGCCTCCCAGGTTC
CAGCAATTCTCCTGCCTCAGCCTCCCTAGTAGCTGGGATGACAGGCGCCTGCCATCATGCCTGACTAATTTTTGT
ATTTTTAGTAGAGACGGCGTTTCACCATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCTGCCTGC
CTCAGCCTCCCAAAGTGCTGGGATTACAGGCGTGA

# FIGURE 4556

CTCTCACGCAGCCAAC**ATG**GCTCCAGTGGAGCACGTTGTGGCGGATGCTGGGGCTTTCCTGCGGCATGCGGCTCT
GCAGGACATCGGGAAGAACATTTACACCATCCGGGAGGTGGTCACTGAGATTCGGGACAAGGCCACACGCAGGCG
GCTCGCTGTCCTGCCCTACGAGCTGCGGTTCAAGGAGCCCTTACCGGAATACGTGCGGCTGGTGACTGAGTTTTC
AAAGAAAACAGGAGACTACCCCAGCCTCTCTGCCACGGACATCCAAGTGCTTGCACTCACATACCAGTTGGAAGC
AGAGTTTGTTGGGGTGTCTCACCTAAAACAAGAACCACAGAAGGTTAAGGTGAGCTCATCGATTCAGCACCCAGA
AACACCTCTGCACATTTCTGGTTTCCATCTGCCCTACAAGCCTAAACCCCCACAAGAAACAGAAAAAGGACACTC
AGCTTGTGAGCCTGAGAACCTGGAATTTAGTTCCTTCATGTTCTGGAGAAACCCTTTGCCCAACATCGATCATGA
ACTGCAGGAGCTGCTGATTGACAGAGGTGAGGACGTTCCAAGTGAGGAGGAGGAGGAGGAAGAAAACGGGTTTGA
AGACAGAAAAGATGACAGCGATGACGACGGGGGGTGGCTGGATAACCCCCAGTAACATCAAGCAGATCCAGCAGGA
GCTGGAGCAGTGTGACGTCCCCGAGGACGTGCGGGTTGGCTGCCTGACCACAGACTTCGCCATGCAGAATGTTCT
GCTGCAGATGGGGCTGCACGTGCTGGCGGTGAACGGCATGCTGATTCGTGAGGCCCGGAGCTACATCTTGCGCTG
CCATGGCTGTTTCAAGACAACGTCTGACATGAGCCGAGTGTTCTGCTCACACTGTGGGAACAAGACCCTGAAGAA
AGTGTCCGTGACCGTCAGCGACGACGGCACCCTGCACATGCACTTCTCCCGCAACCCCAAGGTGCTGAACCCCCG
CGGCCTCCGGTACTCGCTTCCCACTCCCAAAGGGGGCAAATACGCCATCAACCCCCATCTCACCGAGGATCAGCG
CTTCCCTCAGCTGCGACTCTCCCAAAAGGCCAGGCAGAAAACCAACGTGTTCGCCCCTGACTACATCGCCGGGGT
GTCACCCTTTGTCGAGAATGACATCTCCAGCCGCTCAGCTACCCTGCAGGTCCGGGACAGCACCTTGGGAGCTGG
GCGGAGACGCTTAAATCCCAACGCTTCCAGAAAGAAGTTTGTGAAGAAAAGG**TGA**AGAGCGAGTTCCCGCAGGCA
AATTGGATGGGCGTCTGGCCGCCGTGGAGTTCCGGTGACCCATTTCCCCAGCCGTGTCGTCTCCAGGACCACCCG
ATGGAAATAACAGGCGGGCTTCACGGTGCGGCTCTGTCCGCCCATGCCCCGCTGGGTCTGCAGGGAACTGGACTG
TCCCATGGCCTGTGAGCACCGGAGCGCCTGGCTGCCTGCCAAGGAAGTGCAATTGCATAAAAACAGAAAGAACAA
CGCCCTGGAGCCAATCTTCAAGAAAGGAATTTCCAAAGGATAATATTTTTCTAATAAATGCGGCTGCAACCTCCT
GTGCATTTAATTAAATAGGCCAAATTTTTGCTGCTTAGGTCATCTCAAGGCTGATACTTGAGCTGTGTGCCCAGA
GATCATGCATTTAGATTTATATTTTTGCCAGAAAATACAAGGTTATAATAAAACTAAGAACTACCAAAAAAAAAA
AAAAAAAA

4937/6881
# FIGURE 4557

MAPVEHVVADAGAFLRHAALQDIGKNIYTIREVVTEIRDKATRRRLAVLPYELRFKEPLPEYVRLVTEFSKKTGD
YPSLSATDIQVLALTYQLEAEFVGVSHLKQEPQKVKVSSSIQHPETPLHISGFHLPYKPKPPQETEKGHSACEPE
NLEFSSFMFWRNPLPNIDHELQELLIDRGEDVPSEEEEEEENGFEDRKDDSDDDGGGWITPSNIKQIQQELEQCD
VPEDVRVGCLTTDFAMQNVLLQMGLHVLAVNGMLIREARSYILRCHGCFKTTSDMSRVFCSHCGNKTLKKVSVTV
SDDGTLHMHFSRNPKVLNPRGLRYSLPTPKGGKYAINPHLTEDQRFPQLRLSQKARQKTNVFAPDYIAGVSPFVE
NDISSRSATLQVRDSTLGAGRRRLNPNASRKKFVKKR

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# FIGURE 4558

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CTTTTCTCGGGACGGGAGAGGCCGTGTGTAGCGTCGCCGTTACTCCGAGGAGAGACCAGTCGGTAGAGGAGAAGTCC
AGGTTAGAGGGAAGTGGGAGGCACTTTGCTGTCTTCAATCGAAGTTGAGGGTGCAAAAATGCAGAGTAATAAAAC
TTTTAACTTGGAGAAGCAAAACCATACTCCAAGAAAGCATCATCAACATCACCACCAGCAGCAACAGCTGCAGCC
GCCACCACCGCCAATACCTGCAAATGGGCAACAGGCCAGCAGCCAAAATGAAGGCTTTGACTATTTGGCCTGAAG
AATTTTAGAAAACCAGGAGAGAAGACCTTCACCCAACGAAGCCGTCTTTTTGTGGGAAATCTTCCTCCCGACATC
ACTGAGGAAGAAATGAGGAAACTATTTGAGAAATATGGAAAGGCAGGCGAAGTCTTCATTCATAAGGATTAAGGA
TTTGGCTTTATCCGCTTGGAAACACGAACCCTAGCGGAGATTGCGAAAGTGGAGCTGGACAATATGCCACTCTGT
GGAAAGCAGCTGCGTGTGCGCTTTTCCTGCCATAGTGCATCCCTTACAGTTCGAAACCTTCCTCAGTATGTGTCC
AACGAAGTGCTGGAAGAAGCCTTTTCTGTGTTTGGCCAGGTAGAGAGGGCTGTAGTCATTGTGGATGATCGAGGA
AGGCCCTCAGGAAAAGGCATTGTTGAGTTCTCAGGGAAGCCAGCTGCTGGGAAAGCTCTGGACAGACGCAGTGAA
GGCTCCTTCCTGCTAACCACATTTCCTCGTCCTGTGACTATGGAGCCCATGGACCAGTTAGATGATGAAGGGGGA
CTTCCAGAGAAGCTGGTTATAAAAAACCAGCAATTTCACAAGGAACGAGAGCAACCACCCAGATTTGCACAGCCT
GGCTCCTTTGAGTATGAATATGCCATGCGCTGGAAGGCACTCATTGAGATGGAGAAGCAGCAGCAGGACCAAGTG
GACCGCAACATCAAAGAGGCTCGTGAGAAGCCAGAGATGGAGATGGAGGCTGCACGCCATAAGCACCAGGTCATG
CTAATGAGACAGAATTTGATGAGGCGCCAAGAAGAACTTCGGAGGATGGAAGAGCTGCACAACCAAGAGGTGCAA
AAACGAAAGCAACTGGAGCTCAGGCAGGAGGAAGAGCGCAGGCGCCCTGAAGAAGAGATGCGGCGGCAGCAAGAA
GAAATGATGCAGCCACAGCAGGAAGGATTCAAGGGAACCTTCCCTGATGTGAGAGAGCAGGAGATTTGGATGGGT
CAGATGGCTATGGGAGGTGCTATGGGCATAAACAGCAGAGGTGCCTTGACCCCTGCTCCTGTGCCAGCTGGTACC
CCAGCTCCTCCAGGACCTGCCACTATGATGCCGGATGGAACTTTGGGATTGACCCCACCAACAACTGAACGCTTT
GGTCAGGCTGCTACAATGGAAGGAATTGGGGCAATTGGTGAAACTCCTCCTGCATTCAACCATGCAGCTCCTGGA
GCTGAATTTGCTCCAAACAAACGTCGCCGATACTAATAAGTTGCAGTGTCTAGTTTCTCAAAACCCTTAAAAGAA
GGACCCTTTTTGGACCAGCCAGAATTCTACCCTGGAAAAGTGTTAGGGATTCCTTCCAATAGTTAGATCTACCCT
GCCTGTACTACTCTAGGGAGTATGCTGGAGGCAGAGGACAAGGGAGGGGTGGTATTAAACAAGTCAATTCTATGT
AGTATATTATTTAATCAGTTCTGTGTGGTGCATTCCTGAAGTCTCAAATGTGATTGTTGAGGGCCTGGGGAAACC
ATGGCAAAGTAGATCCAGTTAGAGCCCATTAATCTTGATCATTCTGTTTTTTTGGTTTGTTTGTTGTTTTTTTTT
TTTTTTTTTTTGTCCATCTTGTTTCATTTGCTTGCCCTGCCCCCGAGATGGAGTCTTACTCTGTCGCCCAGGCT
GGAGTGTAGTGGCACGATCTCGGCTCACTGCAATCTCTGCCTCTCGGGTTCAAGCTTGTCCAGGCTGATCTTGAA
CTCCTGACCTCGTGATCCCCTGCCTCAGCCTCCCAAAATGCTGGGATTACAGGGGTGAGCCACCGTGCCCAACCT
CACTTGCTTTCTTATCCTTACACTCCCCCAGTCCCAGAGAAACTGCCACATACACCACAAAAACCAAACATCCCC
CAATGACCTTAGCCGCATTGCTCCATTCACTCCCAGGTGAGAATTCAGGTAAACGTCCACAAAGGTCACAGGCAA
CGTACATACGGTTCTATTATATCCCATATATTACCCCTTCATGTCCTAAAGAAGACATTTTCTCTTAGAGATTTT
CATTTTAGTATATCTTTAAAAAAAAAATCTTGTGTTAACTTGCCTCCATCTTTTTCTTGGGTGAGGACACCCAGGA
ATGACCCTTTTGTGTCTATGATACTGCTGTTCACAGCTTTTCTTGATAGGCCTAGTACAATCTTGGGAACAGGGT
TACTGTATACTGAAGGTCTGACAGTAGCTCTTAGACTCGCCTATCTTAGGTAGTCATGCTGTGCCTTTTTTTTCC
ATTGGTGTATTGTATTTGATTTGTCTCTGATATATTTGGAGTTTTTCTGAGAACTGGAGCAGTAATGCAGCATCG
ACCTATTAAAATACATTTTAAGCCTTT
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# FIGURE 4559

MPLCGKQLRVRFSCHSASLTVRNLPQYVSNEVLEEAFSVFGQVERAVVIVDDRGRPSGKGIVEFSGKPAAGKALD
RRSEGSFLLTTFPRPVTMEPMDQLDDEGGLPEKLVIKNQQFHKEREQPPRFAQPGSFEYEYAMRWKALIEMEKQQ
QDQVDRNIKEAREKPEMEMEAARHKHQVMLMRQNLMRRQEELRRMEELHNQEVQKRKQLELRQEEERRRPEEEMR
RQQEEMMQPQQEGFKGTFPDVREQEIWMGQMAMGGAMGINSRGALTPAPVPAGTPAPPGPATMMPDGTLGLTPPT
TERFGQAATMEGIGAIGETPPAFNHAAPGAEFAPNKRRRY

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## FIGURE 4560

GCAGTGAAGGCTCCTTCCTGCTAACCACATTTCCTCGTCCTGTGACTATGGAGCCCATGGACCAGTTAGATGATG
AAGGGGGACTTCCAGAGAAGCTGGTTATAAAAAACCAGCAATTTCACAAGGAACGAGAGCAACCACCCAGATTTG
CACAGCCTGGCTCCTTTGAGTATGAATATGCCATGCGCTGGAAGGCACTCATTGAGATGGAGAAGCAGCAGCAGG
ACCAAGTGGACCGCAACATCAAAGAGGCTCGTGAGAAGCCAGAGATGGAGATGGAGGCTGCACGCCATAAGCACC
AGGTCATGCTAATGAGACAGAATTTGATGAGGCGCCAAGAAGAACTTCGGAGGATGGAAGAGCTGCACAACCAAG
AGGTGCAAAAACGAAAGCAATCTCTGCCTCTCGGGTTCAAGCTTGTCCAGGCTGATCTTGAACTCCTGACCTCGT
GATCCCCTGCCTCAGCCTCCCAAAATGCTGGGATTACAGGGGTGAGCCACCGTGCCCAACCTCACTTGCTTTCTT
ATCCTTACACTCCCCCAGTCCCAGAGAAACTGCCACATACACCACAAAAACCAAACATCCCCCAATGACCTTAGC
CGCATTGCTCCATTCACTCCCAGGTGAGAATTCAGGTAAACGTCCACAAAGGTCACAGGCAACGTACATACGGTT
CTATTATATCCCATATATTACCCCTTCATGTCCTA

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## FIGURE 4561

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CTTTTCTCGGGACGGGAGAGGCCGTGTAGCGTCGCCGTTACTCCGAGGAGAGACCAGTCGGTAGAGGAAGAGCGC
AGGCGCCCTGAAGAAGAGATGCGGCGGCAGCAAGAAGAAATGATGCAGCCACAGCAGGAAGGATTCAAGGGAACC
TTCCCTGATGTGAGAGAGCAGGAGATTTGGATGGGTCAGATGGCTATGGGAGGTGCTATGGGCATAAACAGCAGA
GGTGCCTTGACCCCTGCTCCTGTGCCAGCTGGTACCCCAGCTCCTCCAGGACCTGCCACTATGATGCCGGATGGA
ACTTTGGGATTGACCCCACCAACAACTGAACGCTTTGGTCAGGCTGCTACAATGGAAGGAATTGGGGCAATTGGT
GAAACTCCTCCTGCATTCAACCATGCAGCTCCTGGAGCTGAATTTGCTCCAAACAAACGTCGCCGATACTAATAA
GTTGCAGTGTCTAGTTTCTCAAAACCCTTAAAAGAAGGACCCTTTTTGGACCAGCCAGAATTCTACCCTGGAAAA
GTGTTAGGGATTCCTTCCAATAGTTAGATCTACCCTGCCTGTACTACTCTAGGGAGTATGCTGGAGGCAGAGGAC
AAGGGAGGGGTGGTATTAAACAAGTCAATTCTATGTAGTA
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# FIGURE 4562

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AGTGGTGTCCGCAAAGCCCAAGGTGCATAATCGTCAACCTCGAATTAACTCCTACGTGGAGGTGGCGGTGGATGG
ACTCCCCAGTGAGACCAAGAAGACTGGGAAGCGCATTGGGAGCTCTGAGCTTCTCTGGAATGAGATCATCATTTT
GAATGTCACGGCACAGAGTCATTTAGATTTAAAGGTCTGGAGCTGCCATACCTTGAGAAATGAACTGCTAGGCAC
CGCATCTGTCAACCTCTCCAACGTCTTGAAGAACAATGGGGGCAAAATGGAGAACATGCAGCTGACCCTGAACCT
GCAGACGGAGAACAAAGGCAGCGTTGTCTCAGGCGGAGAGCTGACAATTTTCCTGGACGGGCCAACTGTTGATCT
GGGAAATGTGCCTAATGGCAGTGCCCTGACAGATGGATCACAGCTGCCTTCGAGAGACTCCAGTGGAACAGCAGT
AGCTCCAGAGAACCGGCACCAGCCCCCCAGCACAAACTGCTTTGGTGGAAGATCCCGGACGCACAGACATTCGGG
TGCTTCAGCCAGAACAACCCCAGCAACCGGCGAGCAAAGCCCCGGTGCTCGGAGCCGGCACCGCCAGCCCGTCAA
GAACTCAGGCCACAGTGGCTTGGCCAATGGCACAGTGAATGATGAACCCACAACAGCCACTGATCCCGAAGAACC
TTCCGTTGTTGGTGTGACGTCCCCACCTGCTGCACCCTTGAGTGTGACCCCGAATCCCAACACGACTTCTCTCCC
TGCCCCAGCCACACCGGCTGAAGGAGAGGAACCCAGCACTTCGGGTACACAGCAGCTCCCAGCGGCTGCCCAGGC
CCCCGACGCTCTGCCTGCTGGATGGGAACAGCGAGAGCTGCCCAACGGACGTGTCTATTATGTTGACCACAATAC
CAAGACCACCACCTGGGAGCGGCCCCTTCCTCCAGGCTGGGAAAAACGCACAGATCCCCGAGGCAGGTTTTACTA
TGTGGATCACAATACTCGGACCACCACCTGGCAGCGTCCGACCGCGGAGTACGTGCGCAACTATGAGCAGTGGCA
GTCGCAGCGGAATCAGCTCCAGGGGGCCATGCAGCACTTCAGCCAAAGATTCCTCTACCAGTCTTCGAGTGCTTC
GACTGACCATGATCCCCTGGGCCCCCTCCCTCCTGGCTGGGAGAAGAGACAGGACAATGGACGGGTGTATTACGT
GAACCATAACACTCGCACGACCCAGTGGGAGGATCCCCGGACCCAGGGGATGATCCAGGAACCAGCTCTGCCCCC
AGGATGGGAGATGAAATACACCAGCGAGGGGGTGCGATACTTTGTGGACCACAATACCGCACCACCACCTTTAA
GGATCCTCGCCCGGGGTTTGAGTCGGGGACGAAGCAAGGTTCCCCTGGTGCTTATGACCGCAGTTTTCGGTGGAA
GTATCACCAGTTCCGTTTCCTCTGCCATTCAAATGCCCTACCTAGCCACGTGAAGATCAGCGTTTCCAGGCAGAC
GCTTTTCGAAGATTCCTTCCAACAGATCATGAACATGAAACCCTATGACCTGCGCCGCCGGCTCTACATCATCAT
GCGTGGCGAGGAGGGCCTGGACTATGGGGGCATCGCCAGAGAGTGGTTTTTCCTCCTGTCTCATGAGGTGCTCAA
CCCTATGTATTGTTTATTTGAATATGCCGGAAAGAACAATTACTGCCTGCAGATCAACCCCGCCTCCTCCATCAA
CCCGGACCACCTCACCTACTTTCGCTTTATAGGCAGATTCATCGCCATGGCGCTGTACCATGGAAAGTTCATCGA
CACGGGCTTCACCCTCCCTTTCTACAAGCGGATGCTCAATAAGAGACCAACCCTGAAAGACCTGGAGTCCATTGA
CCCTGAGTTCTACAACTCCATTGTCTGGATCAAAGAGAACAACCTGGAAGAATGTGGCCTGGAGCTGTACTTCAT
CCAGGACATGGAGATACTGGGCAAGGTGACGACCCACGAGCTGAAGGAGGGCGGCGAGAGCATCCGGGTCACAGA
GGAGAACAAGGAAGAGTACATCATGCTGCTGACTGACTGGCGTTTCACCCGAGGCGTGGAAGAGCAGACCAAAGC
CTTCCTGGATGGCTTCAACGAGGTGGCCCCGCTGGAGTGGCTGCGCTACTTTGACGAGAAGAGCTGGAGCTGAT
GCTGTGCGGCATGCAGGAGATAGACATGAGCGACTGGCAGAAGAGCACCATCTACCGGCACTACACCAAGAACAG
CAAGCAGATCCAGTGGTTCTGGCAGGTGGTGAAGGAGATGGACAACGAGAAGAGGATCCGGCTGCTGCAGTTTGT
CACCGGTACCTGCCGCCTGCCCGTCGGGGGATTTGCCGAACTCATCGGTAGCAACGGACCACAGAAGTTTTGCAT
TGACAAAGTTGGCAAGGAAACCTGGCTGCCCAGAAGCCACACCTGCTTCAACCGTCTGGATCTTCCACCCTACAA
GAGCTACGAACAGCTGAGAGAGAAGCTGCTGTATGCCATTGAGGAGACCGAGGGCTTTGGACAGGAGTAACCGAG
GCCGCCCCTCCCACGCCCCCCAGCGCACATGTAGTCCTGAGTCCTCCCTGCCTGAGAGGCCACTGGCCCCGCAGC
CCTTGGGAGGCCCCCGTGGATGTGGCCCTGTGTGGGACCACACTGTCATCTCGCTGCTGGCAGAAAAGCCTGATC
CCAGGAGGCCCTGCAGTTCCCCCGACCCGCGGATGGCAGTCTGGAATAAAGCCCCCTAGTTGCCTTTGGCCCCAC
CTTTGCAAAGTTCCAGAGGGCTGACCCTCTCTGCAAAACTCTCCCCTGTCCTCTAGACCCCACCCTGGGTGTATG
TGAGTGTGCAAGGGAAGGTGTTGCATCCCCAGGGGCTGCCGCAGAGGCCGGAGACCTCCTGGACTAGTTCGGCGA
GGAGACTGGCCACTGGGGGTGGCTGTTCGGGACTGAGAGCGCCAAGGGTCTTTGCCAGCAAAGGAGGTTCTGCCT
GTAATTGAGCCTCTCTGATGATGGAGATGAAGTGAAGGTCTGAGGGAGCGGGCCCTGGGGCGAGGCCATCTCTGC
CTGCCTCCCTAGCAGGCGCCAGCGGTGGAGGCTGAGTCGCAGGACACATGCCGGCCAGTTAATTCATTCTCAGCC
AATGAAGGTTTGTCTAAGCTGCCTGGGTATCCACGGGACAAAAACAGCAAACTCCCTCAGACTTTGTCCATGTAT
AAACTTGAAGTGGTTGTGTTGTAGGGTTGCAGGTTTTTTGTTACGCTGCTGTCACTTTCTGTC
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# FIGURE 4563

MASASSSRAGVALPFEKSQLTLKVVSAKPKVHNRQPRINSYVEVAVDGLPSETKKTGKRIGSSELLWNEIIILNV
TAQSHLDLKVWSCHTLRNELLGTASVNLSNVLKNNGGKMENMQLTLNLQTENKGSVVSGGELTIFLDGPTVDLGN
VPNGSALTDGSQLPSRDSSGTAVAPENRHQPPSTNCFGGRSRTHRHSGASARTTPATGEQSPGARSRHRQPVKNS
GHSGLANGTVNDEPTTATDPEEPSVVGVTSPPAAPLSVTPNPNTTSLPAPATPAEGEEPSTSGTQQLPAAAQAPD
ALPAGWEQRELPNGRVYYVDHNTKTTTWERPLPPGWEKRTDPRGRFYYVDHNTRTTTWQRPTAEYVRNYEQWQSQ
RNQLQGAMQHFSQRFLYQSSSASTDHDPLGPLPPGWEKRQDNGRVYYVNHNTRTTQWEDPRTQGMIQEPALPPGW
EMKYTSEGVRYFVDHNTRTTTFKDPRPGFESGTKQGSPGAYDRSFRWKYHQFRFLCHSNALPSHVKISVSRQTLF
EDSFQQIMNMKPYDLRRRLYIIMRGEEGLDYGGIAREWFFLLSHEVLNPMYCLFEYAGKNNYCLQINPASSINPD
HLTYFRFIGRFIAMALYHGKFIDTGFTLPFYKRMLNKRPTLKDLESIDPEFYNSIVWIKENNLEECGLELYFIQD
MEILGKVTTHELKEGGESIRVTEENKEEYIMLLTDWRFTRGVEEQTKAFLDGFNEVAPLEWLRYFDEKELELMLC
GMQEIDMSDWQKSTIYRHYTKNSKQIQWFWQVVKEMDNEKRIRLLQFVTGTCRLPVGGFAELIGSNGPQKFCIDK
VGKETWLPRSHTCFNRLDLPPYKSYEQLREKLLYAIEETEGFGQE

4944/6881
# FIGURE 4564

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GGTACAGCTGCGCGTCTGCGGGAATAGGTGCAGCGGGCCCTTGGCGGGGGACTCTGAGGGAGGAGCTGGGGACGG
CGACCCTAGGAGAGTTCTTTGGGGTGACTTTCAAGATGGACTCTACTCTAACAGCAAGTGAAATCCGGCAGCGAT
TTATAGATTTCTTCAAGAGGAACGAGCATACGTATGTTCACTCGTCTGCCACCATCCCATTGGATGACCCCACTT
TGCTCTTTGCCAATGCAGGCATGAACCAGTTTAAACCCATTTTCCTGAACACAATTGACCCATCTCACCCCATGG
CAAAGCTGAGCAGAGCTGCCAATACCCAGAAGTGCATCCGGGCTGGGGGCAAACAAAATGACCTGGACGATGTGG
GCAAGGATGTCTATCATCACACCTTCTTCGAGATGCTGGGCTCTTGGTCTTTTGGAGATTACTTTAAGGAATTGG
CATGTAAGATGGCTCTGGAACTCCTCACCCAAGAGTTTGGCATTCCCATTGAAAGACTTTATGTTACTTACTTTG
GCGGGGATGAAGCAGCTGGCTTAGAAGCAGATCTGGAATGCAAACAGATCTGGCAAAATTTGGGGCTGGATGACA
CCAAAATCCTCCCAGGCAACATGAAGGATAACTTCTGGGAGATGGGTGACACGGGCCCCTGTGGTCCTTGCAGTG
AGATCCACTACGACCGGATTGGTGGTCGGGACGCCGCACATCTTGTCAACCAGGACGACCCTAATGTGCTGGAGA
TCTGGAACCTTGTGTTCATCCAGTATAACAGGGAAGCTGATGGCATTCTGAAACCTCTTCCCAAGAAAAGCATTG
ACACAGGGATGGGCCTGGAACGACTGGTATCTGTGCTGCAGAATAAGATGTCCAACTATGACACTGACCTTTTTG
TCCCTTACTTTGAAGCCATTCAGAAGGGCACAGGTGCCCGACCATACACTGGGAAAGTTGGTGCTGAGGATGCCG
ATGGGATTGACATGGCCTACCGGGTGCTGGCTGACCATGCTCGGACCATCACTGTGGCACTGGCTGATGGTGGCC
GGCCTGACAACACAGGGCGTGGATATGTGTTGAGACGGATTCTCCGCCGAGCTGTCCGATACGCCCATGAAAAGC
TCAATGCCAGCAGGGGCTTCTTTGCTACGTTAGTGGATGTTGTCGTCCAGTCCCTGGGAGATGCATTTCCTGAGC
TGAAGAAGGACCCAGACATGGTGAAGGACATCATTAATGAAGAAGAGGTGCAGTTTCTCAAGACTCTCAGCAGAG
GGCGTCGCATCCTGGACAGGAAAATTCAGAGCCTGGGAGACAGCAAGACCATTCCCGGAGACACTGCTTGGCTCC
TCTATGACACCTATGGGTTTCCAGTGGATCTGACTGGACTGATTGCTGAAGAGAAGGGCCTGGTGGTAGACATGG
ATGGCTTTGAAGAGGAGAGGAAACTGGCCCAGCTGAAATCACAGGGCAAGGGAGCTGGTGGGGAAGACCTCATTA
TGCTGGACATTTACGCTATCGAAGAGCTCCGGGCACGGGGTCTGGAGGTCACAGATGATTCCCCAAAGTACAATT
ACCATTTGGACTCCAGTGGTAGCTATGTATTTGAGAACACAGTGGCTACGGTGATGGCTCTGCGCAGGGAGAAGA
TGTTCGTGGAAGAGGTGTCCACAGGCCAGGAGTGTGGAGTGGTGCTGGACAAGACCTGTTTCTATGCTGAGCAAG
GAGGCCAGATCTATGACGAAGGCTACCTGGTGAAGGTGGATGACAGCAGTGAAGATAAAACAGAGTTTACAGTGA
AGAATGCTCAGGTCCGAGGAGGGTATGTGCTACACATTGGAACCATCTACGGTGACCTGAAAGTGGGGGATCAGG
TCTGGCTGTTTATTGATGAGCCCCGACGAAGACCCATCATGAGCAACCACACAGCTACGCACATTCTGAACTTCG
CCCTGCGCTCAGTGCTTGGGGAAGCTGACCAGAAAGGCTCATTGGTTGCTCCTGACCGCCTCAGATTTGACTTTA
CTGCCAAGGGAGCCATGTCCACCCAACAGATCAAGAAGGCTGAAGAGATTGCTAATGAGATGATTGAGGCAGCCA
AGGCCGTCTATACCCAGGATTGCCCCCTGGCAGCAGCGAAAGCCATCCAGGGCCTACGGGCTGTGTTTGATGAGA
CCTATCCTGACCCTGTGCGAGTCGTCTCCATTGGGGTCCCGGTGTCCGAGTTGCTGGATGACCCCTCTGGGCCTG
CTGGCTCCCTGACTTCTGTTGAGTTCTGTGGGGGAACGCACCTGCGGAACTCGAGTCATGCAGGAGCTTTTGTGA
TCGTGACGGAAGAAGCCATTGCCAAGGGTATCCGGAGGATTGTGGCTGTCACAGGTGCCGAGGCCCAGAAGGCCC
TCAGGAAAGCAGAGAGCTTGAAGAAATGTCTCTCTGTCATGGAAGCCAAAGTGAAGGCTCAGACTGCTCCAAACA
AGGATGTGCAGAGGGAGATCGCTGACCTTGGAGAGGCCCTGGCCACTGCAGTCATCCCCCAGTGGCAGAAGGATG
AATTGCGGGAGACTCTCAAATCCCTAAAGAAGGTCATGGATGACTTGGACCGAGCCAGCAAAGCCGATGTCCAGA
AACGAGTGTTAGAGAAGACGAAGCAGTTCATCGACAGCAACCCCAACCAGCCTCTTGTCATCCTGGAGATGGAGA
GCGGCGCCTCAGCCAAGGCCCTGAATGAAGCCTTGAAGCTCTTCAAGATGCACTCCCCTCAGACTTCTGCCATGC
TCTTCACGGTGGACAATGAGGCTGGCAAGATCACGTGCCTGTGTCAAGTCCCCCAGAATGCAGCCAATCGGGGCT
TAAAAGCCAGCGAGTGGGTGCAGCAGGTGTCAGGCTTGATGGACGGTAAAGGTGGTGGCAAGGATGTGTCTGCAC
AGGCCACAGGCAAGAACGTTGGCTGCCTGCAGGAGGCGCTGCAGCTGGCCACTTCCTTCGCCCAGCTGCGCCTCG
GGGATGTAAAGAACTGAGTGGGGAAGGAGGAGGCTCCCACTGGATCCATCCGTCCAGCCAAGAGCTCTTCATCTG
CTACAAGAACATTTGAATCTTGGGACCTTTAAAGAGCCCCTCCTAACCCAGCAGTAACTGGAACACACTTGGGAG
CAGTCCTATGTCTCAGTGCCCCTTAAATTTCTGCCCTGAGCCCTCCACGTCAGTGCCATCGGTCTAGAACCACTA
ACCCCGCATTGCTGTTGATCGTCACGCTCGCATCTATAGATAACGGCTCTCCAGACCTGAGCTTTCCGCGTCAGC
AAGTAGGAATCGTTTTTGCTGCAGAGAATAAAAGGACCACGTGC
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4945/6881
# FIGURE 4565

MDSTLTASEIRQRFIDFFKRNEHTYVHSSATIPLDDPTLLFANAGMNQFKPIFLNTIDPSHPMAKLSRAANTQKC
IRAGGKQNDLDDVGKDVYHHTFFEMLGSWSFGDYFKELACKMALELLTQEFGIPIERLYVTYFGGDEAAGLEADL
ECKQIWQNLGLDDTKILPGNMKDNFWEMGDTGPCGPCSEIHYDRIGGRDAAHLVNQDDPNVLEIWNLVFIQYNRE
ADGILKPLPKKSIDTGMGLERLVSVLQNKMSNYDTDLFVPYFEAIQKGTGARPYTGKVGAEDADGIDMAYRVLAD
HARTITVALADGGRPDNTGRGYVLRRILRRAVRYAHEKLNASRGFFATLVDVVVQSLGDAFPELKKDPDMVKDII
NEEEVQFLKTLSRGRRILDRKIQSLGDSKTIPGDTAWLLYDTYGFPVDLTGLIAEEKGLVVDMDGFEEERKLAQL
KSQGKGAGGEDLIMLDIYAIEELRARGLEVTDDSPKYNYHLDSSGSYVFENTVATVMALRREKMFVEEVSTGQEC
GVVLDKTCFYAEQGGQIYDEGYLVKVDDSSEDKTEFTVKNAQVRGGYVLHIGTIYGDLKVGDQVWLFIDEPRRRP
IMSNHTATHILNFALRSVLGEADQKGSLVAPDRLRFDFTAKGAMSTQQIKKAEEIANEMIEAAKAVYTQDCPLAA
AKAIQGLRAVFDETYPDPVRVVSIGVPVSELLDDPSGPAGSLTSVEFCGGTHLRNSSHAGAFVIVTEEAIAKGIR
RIVAVTGAEAQKALRKAESLKKCLSVMEAKVKAQTAPNKDVQREIADLGEALATAVIPQWQKDELRETLKSLKKV
MDDLDRASKADVQKRVLEKTKQFIDSNPNQPLVILEMESGASAKALNEALKLFKMHSPQTSAMLFTVDNEAGKIT
CLCQVPQNAANRGLKASEWVQQVSGLMDGKGGGKDVSAQATGKNVGCLQEALQLATSFAQLRLGDVKN

4946/6881
# FIGURE 4566

GTAGTGGGGCTGGAGCAGAGCCTGCCGCGAACCCCCGGAGCCCACGATCCCTCGTGCCATCCCTCGAATCCACCA
GCACGAGCGTCCCACCCGCGCCTGGGACC**ATG**GCCACTGACTCATGGGCCCTGGCGGTGGACGAGCAGGAAGCTG
CGGCTGAGTCGTTGAGCAACTTGCATCTTAAGGAAGAGAAAATCAAACCAGATACCAATGGTGCTGTTGTCAAGA
CCAATGCCAATGCAGAGAAGACAGATGAAGAAGAGAAAGAGGACAGAGCTGCCCAGTCCTTACTCAACAAGCTGA
TCAGAAGCAACCTTGTTGATAACACAAACCAAGTGGAAGTCCTGCAGCGGGATCCAAACTCCCCTCTGTACTCGG
TGAAGTCTTTTGAAGAGCTTCGGCTGAAACCACAGCTTCTCCAAGGAGTCTATGCCATGGGTTTCAATCGTCCAT
CCAAGATACAAGAGAACGCATTGCCACTGATGCTTGCTGAGCCCCCACAGAACTTAATTGCCCAATCTCAGTCTG
GTACTGGTAAAACAGCTGCCTTCGTGCTGGCCATGCTTAGCCAAGTAGAACCTGCAAACAAATACCCCCAGTGTC
TATGTCTCTCCCCAACGTATGAGCTCGCCCTCCAAACAGGAAAAGTGATTGAACAAATGGGCAAATTTTACCCTG
AACTGAAGCTAGCTTATGCTGTTCGAGGCAATAAATTGGAAAGAGGCCAGAAGATCAGTGAGCAGATTGTCATTG
GCACCCCTGGGACTGTGCTGGACTGGTGCTCCAAGCTCAAGTTCATTGATCCCAAGAAAATCAAGGTGTTTGTTC
TGGATGAGGCTGATGTCATGATAGCCACTCAGGGCCACCAAGATCAGAGCATCCGCATCCAGAGGATGCTGCCCA
GGAACTGCCAGATGCTGCTTTTCTCCGCCACCTTTGAAGACTCTGTGTGGAAGTTTGCCCAGAAAGTGGTCCCAG
ACCCAAACGTTATCAAACTGAAGCGTGAGGAAGAGACCCTGGACACCATCAAGCAGTACTATGTCCTGTGCAGCA
GCAGAGACGAGAAGTTCCAGGCCTTGTGTAACCTCTACGGGGCCATCACCATTGCTCAAGCCATGATCTTCTGCC
ATACTCGCAAAACAGCTAGTTGGCTGGCAGCAGAGCTCTCAAAAGAAGGCCACCAGGTGGCTCTGCTGAGTGGGG
AGATGATGGTGGAACAGAGGGCTGCAGTGATTGAGCGCTTCCGAGAGGGCAAAGAGAAGGTTTTGGTGACCACCA
ACGTGTGTGCCCGCGGCATTGATGTTGAACAAGTGTCTGTCGTCATCAACTTTGATCTTCCCGTGGACAAGGACG
GGAATCCTGACAATGAGACCTACCTGCACCGGATCGGGCGCACGGGCCGCTTTGGCAAGAGGGGCCTGGCAGTGA
ACATGGTGGACAGCAAGCACAGCATGAACATCCTGAACAGAATCCAGGAGCATTTTAATAAGAAGATAGAAAGAT
TGGACACAGATGATTTGGACGAGATTGAGAAAATAGCCAAC**TGA**GAAGCTCCACCAGCCACTGATGCCAGCCCTG
GCACTGCCCCTGCACAGGAGACAAGTGCGTTCAGGGCACAGGCCCCGACATCACCCCAAGGACAACGGCACAAGT
AGAGAGAAACTACCTACCTCACTTCAAATTATGTTTGGACTTGACAAAAATGTATGCAAATGATGGGGGATGGTA
GAAAAAAATTATTTACACAACCTTGGAAGATTAGGCATGAATACACAGAGATTTACCTTTTGGAAAAAAAAAAAA
AAAAAA

4947/6881
## FIGURE 4567

MATDSWALAVDEQEAAAESLSNLHLKEEKIKPDTNGAVVKTNANAEKTDEEEKEDRAAQSLLNKLIRSNLVDNTN
QVEVLQRDPNSPLYSVKSFEELRLKPQLLQGVYAMGFNRPSKIQENALPLMLAEPPQNLIAQSQSGTGKTAAFVL
AMLSQVEPANKYPQCLCLSPTYELALQTGKVIEQMGKFYPELKLAYAVRGNKLERGQKISEQIVIGTPGTVLDWC
SKLKFIDPKKIKVFVLDEADVMIATQGHQDQSIRIQRMLPRNCQMLLFSATFEDSVWKFAQKVVPDPNVIKLKRE
EETLDTIKQYYVLCSSRDEKFQALCNLYGAITIAQAMIFCHTRKTASWLAAELSKEGHQVALLSGEMMVEQRAAV
IERFREGKEKVLVTTNVCARGIDVEQVSVVINFDLPVDKDGNPDNETYLHRIGRTGRFGKRGLAVNMVDSKHSMN
ILNRIQEHFNKKIERLDTDDLDEIEKIAN

4948/6881
# FIGURE 4568

GTACTATCCTCCTTACTTTTGGGTCGGGCCCTCCGGGAAG<u>ATG</u>GCGGCCGTGCAGGCGGCCGAGGTGAAAGTGGA
TGGCAGCGAGCCGAAACTGAGCAAGAATGAGCTGAAGAGACGCCTGAAAGCTGAGAAGAAAGTAGCAGAGAAGGA
GGCCAAACAGAAAGAGCTCAGTGAGAAACAGCTAAGCCAAGCCACTGCTGCTGCCACCAACCACACCACTGATAA
TGGTGTGGGTCCTGAGGAAGAGAGCGTGGACCCAAATCAATACTACAAAATCCGCAGTCAAGCAATTCATCAGCT
GAAGGTCAATGGGGAAGACCCATACCCACACAAGTTCCATGTAGACATCTCACTCACTGACTTCATCCAAAAATA
TAGTCACCTGCAGCCTGGGGATCACCTGACTGACATCACCTTAAAGGTGGCAGGTAGGATCCATGCCAAAAGAGC
TTCTGGGGGAAAGCTCATCTTCTATGATCTTCGAGGAGAGGGGGTGAAGTTGCAAGTCATGGCCAATTCCAGAAA
TTATAAATCAGAAGAAGAATTTATTCATATTAATAACAAACTGCGTCGGGGAGACATAATTGGAGTTCAGGGGAA
TCCTGGTAAAACCAAGAAGGGTGAGCTGAGCATCATTCCGTATGAGATCACACTGCTGTCTCCCTGTTTGCATAT
GTTACCTCATCTTCACTTTGGGCTCAAAGACAAGGAAACAAGGTATCGCCAGAGATACTTGGACTTGATCCTGAA
TGACTTTGTGAGGCAGAAATTTATCATCCGCTCTAAGATCATCACATATATAAGAAGTTTCTTAGATGAGCTGGG
ATTCCTAGAGATTGAAACTCCCATGATGAACATCATCCCAGGGGGAGCCGTGGCCAAGCCTTTCATCACTTATCA
CAACGAGCTGGACATGAACTTATATATGAGAATTGCTCCAGAACTCTATCATAAGATGCTTGTGGTTGGTGGCAT
CGACCGGGTTTATGAAATTGGACGCCAGTTCCGGAATGAGGGGGATTGATTTGACGCACAATCCTGAGTTCACCAC
CTGTGAGTTCTACATGGCCTATGCAGACTATCACGATCTCATGGAAATCACGGAGAAGATGGTTTCAGGGATGGT
GAAGCATATTACAGGCAGTTACAAGGTCACCTACCACCCAGATGGCCCAGAGGGCCAAGCCTACGATGTTGACTT
CACCCCACCCTTCCGGCGAATCAACATGGTAGAAGAGCTTGAGAAAGCCCTGGGGATGAAGCTGCCAGAAACGAA
CCTCTTTGAAACTGAAGAAACTCGCAAAATTCTTGATGATATCTGTGTGGCAAAAGCTGTTGAATGCCCTCCACC
TCGGACCACAGCCAGGCTCCTTGACAAGCTTGTTGGGGAGTTCCTGGAAGTGACTTGCATCAATCCTACATTCAT
CTGTGATCACCCACAGATAATGAGCCCTTTGGCTAAATGGCACCGCTCTAAAGAGGGTCTGACTGAGCGCTTTGA
GCTGTTTGTCATGAAGAAAGAGATATGCAATGCGTATACTGAGCTGAATGATCCCATGCGGCAGCGGCAGCTTTT
TGAAGAACAGGCCAAGGCCAAGGCTGCAGGTGATGATGAGGCCATGTTCATAGATGAAAACTTCTGTACTGCCCT
GGAATATGGGCTGCCCCCCACAGCTGGCTGGGGCATGGGCATTGATCGAGTCGCCATGTTTCTCACGGACTCCAA
CAACATCAAGGAAGTACTTCTGTTTCCTGCCATGAAACCCGAAGACAAGAAGGAGAATGTAGCAACCACTGATAC
ACTGGAAAGCACAACAGTTGGCACTTCTGTC<u>TAG</u>AAAATAATAATTGCAAGTTGTATAACTCAGGCGTCTTTGCA
TTTCTGCGAAAGATCAAGGTCTGCAAGGGAATTCTTGTGTGCTGCTTTCCATTTGACACCGCAGTTCTGTTCAGC
CATCAGAAGAGAGACAAGGAATTAAAAATTTCTTTTTAATCCTGTTA

4949/6881
# FIGURE 4569

MAAVQAAEVKVDGSEPKLSKNELKRRLKAEKKVAEKEAKQKELSEKQLSQATAAATNHTTDNGVGPEEESVDPNQ
YYKIRSQAIHQLKVNGEDPYPHKFHVDISLTDFIQKYSHLQPGDHLTDITLKVAGRIHAKRASGGKLIFYDLRGE
GVKLQVMANSRNYKSEEEFIHINNKLRRGDIIGVQGNPGKTKKGELSIIPYEITLLSPCLHMLPHLHFGLKDKET
RYRQRYLDLILNDFVRQKFIIRSKIITYIRSFLDELGFLEIETPMMNIIPGGAVAKPFITYHNELDMNLYMRIAP
ELYHKMLVVGGIDRVYEIGRQFRNEGIDLTHNPEFTTCEFYMAYADYHDLMEITEKMVSGMVKHITGSYKVTYHP
DGPEGQAYDVDFTPPFRRINMVEELEKALGMKLPETNLFETEETRKILDDICVAKAVECPPPRTTARLLDKLVGE
FLEVTCINPTFICDHPQIMSPLAKWHRSKEGLTERFELFVMKKEICNAYTELNDPMRQRQLFEEQAKAKAAGDDE
AMFIDENFCTALEYGLPPTAGWGMGIDRVAMFLTDSNNIKEVLLFPAMKPEDKKENVATTDTLESTTVGTSV

4950/6881
# FIGURE 4570

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AAGATGGCGGACCTTGATTCGCCTCCGAAGCTGTCAGGGGTGCAGCAGCCGTCTGAGGGGGTGGGAGGTGGCCGC
TGCTCCGAAATCTCCGCTGAGCTCATTCGCTCCCTGACAGAGCTGCAGGAGCTGGAGGCTGTATACGAACGGCTC
TGCGGCGAGGAGAAAGTGGTGGAGAGAGAGCTGGATGCTCTTTTGGAACAGCAAAACACCATTGAAAGTAAGATG
GTCACTCTCCACCGAATGGGTCCTAATCTGCAGCTGATTGAGGGAGATGCAAAGCAGCTGGCTGGAATGATCACC
TTTACCTGCAACCTGGCTGAGAATGTGTCCAGCAAAGTTCGTCAGCTTGACCTGGCCAAGAACCGCCTCTATCAG
GCCATTCAGAGAGCTGATGACATCTTGGACCTGAAGTTCTGCATGGATGGAGTTCAGACTGCTTTGAGGAGTGAA
GATTATGAGCAGGCTGCAGCACATACTCATCGCTACTTGTGCCTGGACAAGTGGGTCATTGAGCTCAGCCGACAG
GGCAAAGAGGGGAGCATGATTGATGCCAACCTGAAATTGCTGCAGGAAGCTGAGCAACGTCTCAAAGCCATTGTG
GCAGAGAAGTTTGCCATTGCCACCAAGGAAGGTGATCTGCCCCAGGTGGAGCGCTTCTTCAAGATCTTCCCACTG
CTGGGTTTGCATGAGGAGGGATTAAGAAAGTTCTCGGAGTACCTTTGCAAGCAGGTGGCCAGTAAAGCTGAGGAG
AATCTGCTCATGGTGCTGGGGACAGACATGAGTGATCGGAGAGCTGCAGTCATCTTTGCAGATACACTTACTCTT
CTGTTTGAAGGGATTGCCCGCATTGTGGAGACCCACCAGCCAATAGTGGAGACCTATTATGGGCCAGGGAGACTC
TATACCCTGATCAAATATCTGCAGGTGGAATGTGACAGACAGGTGGAGAAGGTGGTAGACAAGTTCATCAAGCAA
AGGGACTACCACCAGCAGTTCCGGCATGTTCAGAACAACCTGATGAGAAATTCTACAACAGAAAAAATCGAACCA
AGAGAACTGGACCCCATCCTGACTGAGGTCACCCTGATGAATGCCCGCAGTGAGCTATACTTACGCTTCCTCAAG
AAGAGGATTAGCTCTGATTTTGAGGTGGGAGACTCCATGGCCTCAGAGGAAGTAAAGCAAGAGCACCAGAAGTGT
CTGGACAAACTCCTCAATAACTGCCTTTTGAGCTGTACCATGCAGGAGCTAATTGGCTTATATGTTACCATGGAG
GAGTACTTCATGAGGGAGACTGTCAATAAGGCTGTGGCTCTGGACACCTATGAGAAGGGCCAGCTGACATCCAGC
ATGGTGGATGATGTCTTCTACATTGTTAAGAAGTGCATTGGGCGGGCTCTGTCCAGCTCCAGCATTGACTGTCTC
TGTGCCATGATCAACCTCGCCACCACAGAGCTGGAGTCTGACTTCAGGGATGTTCTGTGTAATAAGCTGCGGATG
GGCTTTCCTGCCACCACCTTCCAGGACATCCAGCGCGGGGTGACAAGTGCCGTGAACATCATGCACAGCAGCCTC
CAGCAAGGCAAATTTGACACAAAAGGCATCGAGAGTACTGACGAGGCGAAGATGTCCTTCCTGGTGACTCTGAAC
AACGTGGAAGTCTGCAGTGAAAACATCTCCACTCTGAAGAAGACACTGGAGAGTGACTGCACCAAGCTCTTCAGC
CAGGGCATTGGAGGGGAGCAGGCCCAGGCCAAGTTTGACAGCTGCCTTTCTGACTTGGCCGCCGTGTCCAACAAA
TTCCGAGACCTCTTGCAGGAAGGGCTGACGGAGCTCAACAGCACAGCCATCAAGCCACAGGTGCAGCCTTGGATC
AACAGCTTTTTCTCCGTCTCCCACAACATCGAGGAGGAAGAATTCAATGACTATGAGGCCAACGACCCTTGGGTA
CAACAGTTCATCCTTAACCTGGAGCAGCAAATGGCAGAGTTCAAGGCCAGCCTGTCCCCGGTCATCTACGACAGC
CTAACCGGCCTCATGACTAGCCTTGTTGCCGTCGAGTTGGAGAAAGTGGTGCTGAAATCCACCTTTAACCGGCTG
GGTGGTCTGCAGTTTGACAAGGAGCTGAGGTCGCTCATTGCCTACCTTACCACGGTGACCACCTGGACCATCCGA
GACAAGTTTGCCCGGCTCTCCCAGATGGCCACCATCCTCAATCTGGAGCGGGTGACCGAGATCCTCGATTACTGG
GGACCCAATTCCGGCCCATTGACGTGGCGCCTCACCCCTGCTGAAGTGCGCCAGGTGCTGGCCCTGCGGATAGAC
TTCCGCAGTGAAGATATCAAGAGGCTGCGCCTGTAGCTGCCTGGATGAGCACACCTGGCTCATCACACTTGCAGG
CCTGTTCCCTAAGGGGCCCCAGCCAAGGAGCTGAGCGAGGCTGTCTGGCTTGGGGGAGATCTGACAGCCCAGACC
TTTCTACGGCTGGCAGCAGAGAAACAAAGTCTGGACCCACTCCATGCTCTGCCCTCAGACCTGGCCAGGTGATGC
TCTGGGGGCAGCATCTCCCCACCGAGAGAAGCGGGCTCCTAATGAGGTGGGAAAGCCACGGCAGGCAGCGAGCAG
CCCAGGCCAGCTTTCTGCATGGATGGTCAGTCTCTTGCCCTCAAACACTACAGCAAACAAGCTACCCCTGCCAGT
CCTAGACAACTTGGGTACATCTGGGGACCTAGCAGTTAGGCTTGACTTTGAGGAGAGGCTGTGATGTTTATGATC
CCTGAATAAAGCTACTCCTTGGAGAGATGCCAGTGTGCTGTTACCAGGGAGGGCCAGATGCTATGGGGC
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4951/6881
# FIGURE 4571

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GTGGCAGCGGCTGGCGGCAAAACCTCTCGAGTGAGCCCCTGCCCGAGTGCCGCGGGGGAGAGGCCGCGAGCGGGA
CCGAGAAGTGGGCTGGGAGCAGAGGTCGCGGAGGTGGCGAGCGAGGCCGGGGCCCAGGCGGGGACCGGCAGGGGC
CCGGGAGTGGCGGGCACGCCAGGGTCAGGGTGCCGGGCGAGGGAGGGGGCCCGGGGTTGGGGAAGGGGGCCCGGG
GAGGGAGGTAAACAGCCCTGCAGGCCTCGGGGCACCGTTGCTGGGCGGCGCCGGCGGCATGTGCGAGGGCCCGTC
CCGCATCTCGGGGCCCATCCCCCCAGACCCGACGCTCTGTCCTGACAACTACAGGCGGCCGACCTCGGCTCAAGG
GCGCCTCGAGGGAAACGCGCTGAAGCTGGACTTGCTGACTTCCGACCGGGCCCTGGACACCACCGCTCCCCGTGG
CCCCTGCATCGGTCCCGGTGCCGGAGAGATCCTGGAGCGCGGCCAGCGCGGCGTCGGGGACGTGCTGTTGCAACT
CGAGGGGATCTCCCTAGGTCCTGGGGCCTCTCTCAAGAGGAAGGACCCTAAGGACCATGAGAAGGAGAACCTGAG
GCGGATCAGGGAGATTCAGAAGCGCTTCAGAGAACAGGAGCGCAGCCGGGAGCAGGGCCAGCCCAGGCCCCTGAA
AGCTCTGTGGCGCTCACCCAAGTACGACAAGGTGGAGTCCCGGGTCAAGGCCCAGCTCCAGGAGCCTGGCCCTGC
CTCTGGGACAGAGTCTGCCCACTTCCTGCGGGCGCACTCCCGCTGCGGCCCTGGCCTCCCACCACCCCATGTATC
TAGTCCCCAGCCAACCCCACCAGGTCCCGAAGCTAAGGAGCCAGGCCTGGGGGTGGACTTCATTCGTCACAATGC
ACGAGCTGCCAAGAGAGCCCCCCGGAGGCATTCCTGCTCACTGCAGGTCCTGGCACAAGTGCTAGAGCAGCAGCG
GCAGGCCCAGGAGCACTACAATGCCACGCAGAAGGGCCATGTGCCACATTACTTGTTGGAGCGCAGGGACCTGTG
GCGGCGGGAGGCCGAGGCCCGCAAGCAGAGCCAGCCGGACCCTGCCATGCCCCCAGGCCACACGCGCATGCCTGA
GAACCAGCGGCTGGAAACACTGACCAAGCTGCTCCAGAGCCAGAGCCAGCTGCTGCGTGAGCTGGTACTGCTGCC
TGCTGGGGCAGACTCACTGAGAGCCCAGAGCCACCGTGCTGAGCTGGACCGGAAGCTGGTGCAGGTAGAGGAGGC
CATCAAGATCTTTTCTCGGCCCAAAGTCTTCGTGAAGATGGACGACTGAGCCCCTTTGGGGGACAGTGGCAAGGA
GCTCCATGCTGAGGATCGCCACATGGCTGCAAAGGACAGGGTTGGACCCAATCCCAGAGCAGAGGTCTGAAGACA
GGAGCAGGGGGGTGGCCAGTGTCCCTAGAGCACTCTTCCCAGTCACCAGTGGCTGCAGAAGGGCCACCCTAGCCT
TTTAACTGCTTTGTCAAAATTAAACATTTTGTACACAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
```

4952/6881
## FIGURE 4572

MCEGPSRISGPIPPDPTLCPDNYRRPTSAQGRLEGNALKLDLLTSDRALDTTAPRGPCIGPGAGEILERGQRGVG
DVLLQLEGISLGPASLKRKDPKDHEKENLRRIREIQKRFREQERSREQGQPRPLKALWRSPKYDKVESRVKAQL
QEPGPASGTESAHFLRAHSRCGPGLPPPHVSSPQPTPPGPEAKEPGLGVDFIRHNARAAKRAPRRHSCSLQVLAQ
VLEQQRQAQEHYNATQKGHVPHYLLERRDLWRREAEARKQSQPDPAMPPGHTRMPENQRLETLTKLLQSQSQLLR
ELVLLPAGADSLRAQSHRAELDRKLVQVEEAIKIFSRPKVFVKMDD

4953/6881
# FIGURE 4573

```
AAAAAAAAGAAACCAGGCGGCGCGTTCCCGGTGGCGGCGCCCTGGACTCCCGGGCCCGCGCATCCCCGCCAGCCT
TCCTTAAGGCGGATGGGTGGCCCCCGAGACCCCGTCGGACCCATGGTTTCCAGTGCAGCGCGGAGTGGGCGGTGC
CAGCGTGCCAGGAGCCATGTCTGACCAGGACGTTTGGAAGATCATATCCATGCCAGAGGCTCTTGTGGGGAGATG
AGTTGGTAAAGAGAGAGGCTGGGATGAAGATGCTGCCAGGAGTGGACGTGTTTGGGACTGGCAGCTCCGCCCGAG
TTCTGGTCCCACTGCTGAGGGCAGAAGGGTTCACTGTTGAGGCCCTGTGGGGGAAGACTGAGGAGGAGGCGAAGC
AGCTTGCTGAGGAGATGAACATCGCCTTCTACACCAGCCGGACTGATGACATCTTGCTGCATCAAGATGTGGATC
TGGTGTGCATCAGCATCCCCCCTCCACTCACCCGGCAGATATCCGTGAAGGCTCTAGGTATTGGGAAGAATGTGG
TTTGCGAGAAGGCAGCAACATCGGTGGATGCCTTCCGGATGGTGACAGCCTCGCGCTACTACCCGCAGCTCATGA
GCCTGGTAGGGAACGTGCTGCGCTTCCTGCCTGCCTTCGTGCGCATGAAACAGCTGATTCGGAACACTATGTGG
GAGCGGTGATGATCTGTGATGCCCGCATCTACTCAGGCAGCCTGCTGAGCCCCAGCTATGGCTGGATCTGTGATG
AGCTCATGGGCGGCGGGGGCTTGCACACCATGGGGACCTACATTGTGGACCTGCTGACCCACCTGACCGGCCGGA
GAGCCGAGAAGGTGCACGGGCTGCTCAAGACATTCGTGAGGCAGAACGCTGCCATCCGTGGCATCCGGCACGTCA
CTAGCGATGACTTCTGTTTCTTCCAGATGCTCATGGGTGGGGGTGTGTGTAGCACAGTGACACTCAACTTCAACA
TGCCAGGCGCCTTTGTGCATGAAGTCATGGTGGTAGGCTCTGCAGGACGCCTCGTCGCCCGGGGAGCCGACCTCT
ATGGGCAGAAGAACTCTGCCACGCAAGAGGAGCTGCTCTTGAGGGACTCGCTGGCAGTGGGCGCAGGACTGCCTG
AGCAGGGGCCCCAGGATGTCCCGCTGCTGTACCTGAAGGGCATGGTCTACATGGTGCAGGCCTTGCGCCAGTCCT
TCCAGGGGCAGGGCGACCGCCGCACCTGGGACCGCACCCCTGTCTCCATGGCCGCCTCCTTCGAGGATGGGCTGT
ACATGCAGAGCGTGGTGGATGCCATCAAGAGGTCGAGCCGATCCGGGGAGTGGGAGGCTGTGGAGGTGCTGACGG
AGGAGCCCGACACCAACCAGAACCTGTGTGAGGCACTTCAGCGGAACAACCTATGAGCCTGCACCTGGGCTCCTT
GCCACAGGGCAGAGGGACCAGGGAGGGGAACAGGAGCCAGACATGACAGGGACTTGGCCCTAGCAGAGACAGTGT
CTTTCATTTGATGAGTCTGGGTGAAGCCAGAGGTGGCTCTGGGACTTCGCCCCCTCCAGTGGCTCACCTGCTCCT
CAGACTTGCAGGGTGGCAAATGTTCCTGTTGCCAGGTTACCACGGTGTGCACAGGGCAGAGCTGCCGCCAGGCCT
CCTCATGGTGATGCCAGTGAGTCGGACCAGGAAAGGCTCACCCTGGGGAGCCCTTCAGCCTGATCCGCAGTCCTA
ACAGGGTGAGAAAGCACAAGAGGGGCCAGCTCGGCTGAGGCCTGAGGAGAAATGATGAGAAGTTTTGTTTCGTTC
TTGGGCTGGGGCATCTCAGGAACAGTGAGGGCAACAAGCTGTCCCTCAGGGACCCTCACCTGCCCTCCCATGTGA
CCAGGCCCTTCCCAGGTGGGGACTGGGGCTTGCTTTATTAAGTGAGCTCTTGGGCTTTTGAAGTAGGACAGAGGG
CCCTGGTTTGGCAGAGAGGAGGCAAGGGAGGGCTTTAGAACATCTGAGAAATGTTAATAAATAATTCAGAAAATA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAA
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4954/6881
# FIGURE 4574

MKMLPGVDVFGTGSSARVLVPLLRAEGFTVEALWGKTEEEAKQLAEEMNIAFYTSRTDDILLHQDVDLVCISIPP
PLTRQISVKALGIGKNVVCEKAATSVDAFRMVTASRYYPQLMSLVGNVLRFLPAFVRMKQLISEHYVGAVMICDA
RIYSGSLLSPSYGWICDELMGGGGLHTMGTYIVDLLTHLTGRRAEKVHGLLKTFVRQNAAIRGIRHVTSDDFCFF
QMLMGGGVCSTVTLNFNMPGAFVHEVMVVGSAGRLVARGADLYGQKNSATQEELLLRDSLAVGAGLPEQGPQDVP
LLYLKGMVYMVQALRQSFQGQGDRRTWDRTPVSMAASFEDGLYMQSVVDAIKRSSRSGEWEAVEVLTEEPDTNQN
LCEALQRNNL

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# FIGURE 4575

GGAAGGGACAGTCGGCCGCAGACCGCGCTGGGTTGCCGCTGCCGCTGCCGCCATCGTGCCAGCCCCTCGGGTCTC
CGTGAGGCCGGGTGACGCTCCAGA**ATG**GGAGACAAGCCAATTTGGGAGCAGATTGGATCCAGCTTCATTCAACAT
TACTACCAGTTATTTGATAATGATAGAACCCAACTAGGCGCAATTTACATTGACGCGTCATGCCTTACGTGGGAA
GGACAACAGTTCCAGGGGAAAGCTGCCATTGTGGAGAAGTTGTCTAGCCTTCCGTTCCAGAAAATTCAGCACAGC
ATCACCGCGCAGGACCATCAGCCCACTCCAGATAGCTGCATCATCAGCATGGTTGTGGGCCAGCTTAAGGCGGAT
GAAGACCCCATCATGGGGTTCCACCAGATGTTCCTATTAAAGAACATCAACGATGCTTGGGTTTGCACCAATGAC
ATGTTCAGGCTCGCCCTGCACAACTTTGGC**TGA**CCTCCTCTCAGCTAGGCACTCACGCTGTTTCCTCCTCCCTCC
TCTTCCCAATACTATTCCCACTCCTCCAGATGCTCCAAATATCATGCACAAATGAGCAGGGCCGCGGTGGGAGTG
GGCGCAGTGCGCTGCTGCCACTGAGGTGTTGTGCATGATGTTTGGATGCTAGACTAGTTGCATCTGACGGGAGAA
GTTTGTGTTGTACCAGCGCATGCCTTGGAAAGACTTAAGTAATGCAAAAGGTTGTCCTTTTTTTTTTTTTTTTTT
TTTTAATCTACTGACAAGTTGCTCTAGTAACCCAAAGAAGTGAAGGAGAAAGCAGCTGCCTCACCGCCCAGACAT
TGATTTGTTCAGATGTTTCAATGCCTCATGATACAATAAAACCACAAAAATTTTCTTAACAAAAAAAAA

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# FIGURE 4576

MGDKPIWEQIGSSFIQHYYQLFDNDRTQLGAIYIDASCLTWEGQQFQGKAAIVEKLSSLPFQKIQHSITAQDHQP
TPDSCIISMVVGQLKADEDPIMGFHQMFLLKNINDAWVCTNDMFRLALHNFG

# FIGURE 4577

ATTGCCCGGAGATGGCCGGCAGAGCCGCCGAGACGCCGAAGAGCCCGCCGCCCGCGCGAGGTGTAGACGGGGCAC
TGCCTTCAGAGCAGGTCCTGCCAGCCTCGCTGGAGAGGATGCCCTCGTGTCCGTG**ATG**GGCTGTGGGACAAGCAA
GGTCCTTCCCGAGCCACCCAAGGATGTCCAGCTGGATCTGGTCAAGAAGGTGGAGCCCTTCAGTGGCACTAAGAG
TGACGTGTACAAGCACTTCATCACAGAGGTGGACAGTGTTGGCCCTGTCAAAGCCGGGTTCCCAGCAGCAAGTCA
GTATGCACACCCCTGCCCCGGTCCCCCGACTGCTGGCCACACGGAGCCTCCCTCAGAACCACCACGCAGGGCCAG
GGTAGCTAAGTACAGGGCCAAGTTTGACCCACGTGTTACAGCTAAGTATGACATCAAGGCCCTAATTGGCCGAGG
CAGCTTCAGCCGAGTGGTACGTGTAGAGCACCGGGCAACCCGGCAGCCGTATGCCATCAAGATGATTGAGACCAA
GTACCGGGAGGGGCGGGAGGTGTGTGAGTCGGAGCTGCGTGTGCTGCGTCGGGTGCGTCATGCCAACATCATCCA
GCTGGTGGAGGTGTTCGAGACACAGGAGCGGGTGTACATGGTGATGGAGCTGGCCACTGGTGGAGAGCTCTTTGA
CCGCATCATTGCCAAGGGCTCCTTCACCGAGCGTGACGCCACGCGGGTGCTGCAGATGGTGCTGGATGGCGTCCG
GTATCTGCATGCACTGGGCATCACACACCGAGACCTCAAACCTGAGAATCTGCTCTACTACCATCCGGGCACTGA
CTCCAAGATCATCATCACCGACTTCGGCCTGGCCAGTGCTCGCAAGAAGGGTGATGACTGCTTGATGAAGACCAC
CTGTGGCACGCCTGAGTACATTGCCCCAGAAGTCCTGGTCCGCAAGCCATACACCAACTCAGTGGACATGTGGGC
GCTGGGCGTCATTGCCTACATCCTACTCAGTGGCACCATGCCGTTTGAGGATGACAACCGTACCCGGCTGTACCG
GCAGATCCTCAGGGGCAAGTACAGTTACTCTGGGGAGCCCTGGCCTAGTGTGTCCAACCTGGCCAAGGACTTCAT
TGACCGCCTGCTGACAGTGGACCCTGGAGCCCGTATGACTGCACTGCAGGCCCTGAGGCACCCGTGGGTGGTGAG
CATGGCTGCCTCTTCATCCATGAAGAACCTGCACCGCTCCATATCCCAGAACCTCCTTAAACGTGCCTCCTCGCG
CTGCCAGAGCACCAAATCTGCCCAGTCCACGCGTTCCAGCCGCTCCACACGCTCCAATAAGTCACGCCGTGTGCG
GGAACGGGAGCTGCGGGAGCTCAACCTGCGCTACCAGCAGCAATACAATGGC**TGA**GCCGCCTGGCTGTGCACACA
TGCAGCACGACCCAGCCTGGCCACACACTGTGGTGCCATCTGGGTCCGATGCCCTCTCTGGAGATAGGCCTATGT
GGCCCACAGTAGGTGAAGAATGTCTGGCTCCAGCCCTTTCTCTGTGCCTTCAGCAGCCCCTGTCCTCACCATGGG
CCTGGGCCAGGTGTGACAGAGTAGAGGTAGCACAGGGGGCTGTGACTCCCCCTGAACTGGGAGCCTGGCCTGGCA
CTGATACCCCTCTTGGTGGGCAGCTGCTCTGGTGGAGTTGGGAAGGGATAGGACCTGGCCTTCACTGTCTCCCTT
GCCCTTTGACTTTTCCCCAATCAAAGGGAACTGCAGTGCTGGGTGGAGTGTCCTGTGGCCTCAGGACCCTTTGGG
ACAGTTACTTCTGGGACCCCCTTTCCTCCACAGAGCCCTTCTCCCTGGTTTCACACATTCCCATGCATCCTGATC
CTTAAGATTATGCTCCAGTGGGAGACCCTGGTAGGCACAAAGCTTGTGCCTTGACTGGACCCGTAGCCCCTGGCT
AGGTCGAAACAGCCCTCCACCTCCCAGCCAAGATCTGTCTTCCTTCATGGTGCCTCCAGGGAGCCTTCCTGGTCC
CAGGACCTCTGGTGGAGGGCCATGGCGTGGACCTTCACCCTTCTGGACTGTGTGGCCATGCTGGTCATCGGCTTG
CCCAGGCTCCAGCCTCTCCAGATTCTGAGGGGTCTCAGCCCACCGCCCTTGGTGCCTTCTTTGTAGAGCCCACCG
CTACCTCCCTCTCCCCGTTGGATGTCCATTCCATTCCCCAGGTGCCTCCTTCCCAACTGGGGGTGGTTAAAGGGA
GCCCCACTGCTGCTACCTGGGGAATGGGGCACCTGGGGGCCAAGGCAGAGGGAAGGGGGTCCTCCCGATAGGGTC
GAGTGTCAGCCTGGGTTCTATCCTTTGGTGCAGCCCCATTGCCTTTTCCCTTCAGGCTCTGTTGCTCCCTCCTCT
GCAGCTGCACGAAGGCGCCATCTGGTGTCTGCATGGGTGTTGGCAGCCTGGGAGTGATCACTGCACGCCCATCGT
GCACACCTGCCCATCGTGCACACCCACCCATGGTGCACACCTGTAGTCCTCCATGAGGACATGGGAAGGTAGGAG
TTGCCGCCCTGGGGGAGGGTCCCGGGCTGCTCACCTCTCCCCTTCTGCTGAGCTTCTGCGCACCCCTCCCTGGAA
CTTAGCCATACTGTGTGACCTGCCTCTGAAACCAGGGTGCCAGGGGCACTGCCTTCTCACAGCTGGCCTTGCCCC
GTCCACCCTGTGCTGCTTCCCTTCACAGCATTAACCTTCCAGTCTGGGTCCCACTGAGCCTCAAGCTGGAAGGAG
CCCCTGCGGGAGGTGGGTGGGGTTGGGTGGCTGCTTTCCCAGAGGCCTGAGCCAGAACCATCCCCATTTCTTTTG
TGGTATCTCCCCCTACCACAAACCAGGCTGGAACCCAAGCCCCTTCCTCCACAGCTGCCTTCAGTGGGTAGAATG
GGGCCAGGGCCCAGCTTTGGCCTTAGCTTGACGGCAGGGCCCCTGCCATTGCAGGAGGGTTTGGTTCCCACTCAG
CTTCTGCCGGTCGGCAGCCTGGGCCAGGCCCTTTTCCTGCATGTGCCACCTCCAGTGGGAAACAAAACTAAAGAG
ACCACTCTGTGCCAAGTCGACTATGCCTTAGACACATCCTCCTACCGTCCCCAATGCCCCCTGGGCAGGAGGCAG
TGGAGAACCAAGCCCCATGGCCTCAGAATTTCCCCCCAGTTCCCCAAGTGTCTCTGGGGACCTGAAGCCCTGGGG
CTTACGTTCTCTCTTGCCCAGGGTGGGCCTGGTCCTGAGGGCAGGACAGGGGGTTTGGAGATGTGGGCCTTTGAT
AGACCCACTTGGGCCTTCATGCCATGGCCTGTGGATGGAGAATGTGCAGTTATTTATTATGCGTATTCAGTTTGT
AAACGTATCCTCTGTATTCAGTAAACAGGCTGCCTCTCCAGGGAGGGCTGCCATTCATTCC

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# FIGURE 4578

MGCGTSKVLPEPPKDVQLDLVKKVEPFSGTKSDVYKHFITEVDSVGPVKAGFPAASQYAHPCPGPPTAGHTEPPS
EPPRRARVAKYRAKFDPRVTAKYDIKALIGRGSFSRVVRVEHRATRQPYAIKMIETKYREGREVCESELRVLRRV
RHANIIQLVEVFETQERVYMVMELATGGELFDRIIAKGSFTERDATRVLQMVLDGVRYLHALGITHRDLKPENLL
YYHPGTDSKIIITDFGLASARKKGDDCLMKTTCGTPEYIAPEVLVRKPYTNSVDMWALGVIAYILLSGTMPFEDD
NRTRLYRQILRGKYSYSGEPWPSVSNLAKDFIDRLLTVDPGARMTALQALRHPWVVSMAASSSMKNLHRSISQNL
LKRASSRCQSTKSAQSTRSSRSTRSNKSRRVRERELRELNLRYQQQYNG

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# FIGURE 4579

ATCTGCCACG<u>ATG</u>TTGCTGCTCAGCCTGACCCTAAGCCTGGTTCTCCTCGGCTCCTCCTGGGGCTGCGGCATTCC
TGCCATCAAACCGGCACTGAGCTTCAGCCAGAGGATTGTCAACGGGGAGAATGCAGTGTTGGGCTCCTGGCCCTG
GCAGGTGTCCCTGCAGGACAGCAGCGGCTTCCACTTCTGCGGTGGTTCTCTCATCAGCCAGTCCTGGGTGGTCAC
TGCTGCCCACTGCAATGTCAGCCCTGGCCGCCATTTTGTTGTCCTGGGCGAGTATGACCGATCATCAAACGCAGA
GCCCTTGCAGGTTCTGTCCGTCTCTCGGGCCATTACACACCCTAGCTGGAACTCTACCACCATGAACAATGACGT
GACGCTGCTGAAGCTCGCCTCGCCAGCCCAGTACACAACACGCATCTCGCCAGTTTGCCTGGCATCCTCAAACGA
GGCTCTGACTGAAGGCCTCACGTGTGTCACCACCGGCTGGGGTCGCCTCAGTGGCGTGGGCAATGTGACACCAGC
ACATCTGCAGCAGGTGGCTTTGCCCCTGGTCACTGTGAATCAGTGCCGGCAGTACTGGGGCTCAAGTATCACTGA
CTCCATGATCTGTGCAGGTGGCGCAGGTGCCTCCTCGTGCCAGGGTGACTCCGGAGGCCCTCTTGTCTGCCAGAA
GGGAAACACATGGGTGCTTATTGGTATTGTCTCCTGGGGCACCAAAAACTGCAATGTGCGCGCACCTGCTGTGTA
TACTCGAGTTAGCAAGTTCAGCACCTGGATCAACCAGGTCATAGCCTACAAC<u>**TGA**</u>GCTCACCACAGGCCCTCCCC
AGCTCAACCCATTAAAGACCCAGGCCCTGTCCCATCATGCATTCATGTCTGTCTTCCTGGCTCAGGAGAAAGAAG
AGGCTGTTGAGGGTCCGACTCCCTACTTGGACTTCTGGCACAGAAGGGGCTGAGTGACTCCTTGAGTAGCAGTGG
·CTCTTCCTAGAGTAGCCATGCCGAGGCCGGGGCCCCCACCCCTCCTCCAGGGCAACCCCTTGGTCCTACAGCAAG
AAGCCAGAACTGTTGGAATGAATGGCAGCCCTCCCTGGAGAGGCAGCCTGTTTACTGAATACAGAGGATACGTTT
ACAAACTGAATACGCATAATAAATAACTGCACATTCTCCATCCAAAAAAAAAAAAAAAAA

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# FIGURE 4580

MLLLSLTLSLVLLGSSWGCGIPAIKPALSFSQRIVNGENAVLGSWPWQVSLQDSSGFHFCGGSLISQSWVVTAAH
CNVSPGRHFVVLGEYDRSSNAEPLQVLSVSRAITHPSWNSTTMNNDVTLLKLASPAQYTTRISPVCLASSNEALT
EGLTCVTTGWGRLSGVGNVTPAHLQQVALPLVTVNQCRQYWGSSITDSMICAGGAGASSCQGDSGGPLVCQKGNT
WVLIGIVSWGTKNCNVRAPAVYTRVSKFSTWINQVIAYN

# FIGURE 4581A

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GGCACGAGGGGCGGGGACAGCGGCGGGGACAGCGGCGGGCGGCTGGGACGGCGGGTGCGGCGGGGCCGAGCCCGC
ACGATGCCTCACTTCACCGTGGTGCCAGTGGACGGGCCGAGGCGCGGCGACTATGACAACCTCGAGGGGCTCAGT
TGGGTGGACTACGGGGAGCGCGCCGAGCTGGATGACTCGGACGGACATGGCAACCACAGAGAGAGCAGCCCTTTT
CTTTCCCCCTTGGAGGCTTCCAGAGGAATTGACTACTATGACAGGAACCTGGCACTGTTTGAGGAAGAGCTGGAC
ATCCGCCCAAAGGTATCGTCTCTTCTGGGAAAGCTCGTCAGCTACACCAACCTCACCCAGGGCGCCAAAGAGCAT
GAGGAGGCCGAGAGTGGGGAGGGCACCCGCCGGAGGGCAGCCGAGGCACCCAGCATGGGCACCCTCATGGGGGTG
TACCTGCCCTGCCTGCAGAATATCTTTGGGGTTATCCTCTTCCTGCGGCTGACCTGGATGGTGGGCACAGCAGGT
GTGCTACAGGCCCTCCTCATCGTGCTTATCTGCTGCTGTTGTACCCTGCTGACGGCCATCTCCATGAGTGCCATC
GCCACCAACGGTGTGGTTCCAGCTGGGGGCTCCTATTTCATGATCTCTCGTTCACTGGGGCCAGAATTTGGAGGT
GCTGTGGGCCTGTGCTTCTACCTGGGAACAACATTCGCAGCAGCCATGTACATCCTGGGGGCCATCGAGATCTTG
CTGACCTACATTGCCCCACCAGCTGCCATTTTTTACCCATCGGGTGCTCATGACACGTCGAATGCCACTTTGAAC
AATATGCGTGTGTATGGGACCATTTTCCTGACCTTCATGACCCTGGTGGTGTTTGTGGGGGTCAAGTATGTGAAC
AAATTTGCCTCGCTCTTCCTGGCCTGTGTGATCATCTCCATCCTCTCCATCTATGCTGGGGGCATAAAGTCTATA
TTTGACCCTCCCGTGTTTCCGGTATGCATGCTGGGCAACAGGACCCTGTCCCGGGACCAGTTTGACATCTGTGCC
AAGACAGCTGTAGTGGACAATGAGACAGTGGCCACCCAGCTATGGAGTTTCTTCTGCCACAGCCCCAACCTTACG
ACCGACTCCTGTGACCCCTACTTCATGCTCAACAATGTGACCGAGATCCCTGGCATCCCCGGGGCAGCTGCTGGT
GTGCTCCAGGAAAACCTGTGGAGCGCCTACCTGGAGAAGGGTGACATCGTGGAGAAGCATGGGCTGCCCTCCGCA
GATGCCCCGAGCCTGAAGGAGAGCCTGCCTCTGTACGTGGTCGCTGACATCGCCACATCCTTCACCGTGCTGGTC
GGCATCTTCTTCCCTTCTGTAACAGGCATCATGGCTGGCTCAAACCGCTCTGGGGACCTTCGTGACGCCCAGAAG
TCTATCCCTGTGGGGACCATTCTGGCCATCATTACAACTTCCCTCGTGTACTTCAGCAGTGTGGTTCTCTTTGGT
GCCTGCATTGAGGGTGTGTGGTTCTCCGGGACAAGTATGGCGATGGTGTCAGCAGGAACTTGGTGGTGGGCACACTG
GCCTGGCCTTCACCCTGGGTCATCGTCATCGGCTCCTTCTTTTCAACGTGTGGCGCTGGCCTCCAGAGCCTCACA
GGGGCACCACGCCTATTGCAGGCCATTGCCAAGGACAACATCATCCCCTTCCTCCGGGTGTTTGGCCACGGGAAG
GTGAATGGTGAACCCACATGGGCACTCCTCCTGACGGCACTCATCGCCGAGCTGGGCATCCTCATCGCCTCCCTC
GACATGGTGGCCCCCATCTTATCCATGTTCTTTCTGATGTGCTACCTGTTCGTGAACCTCGCCTGTGCGGTGCAG
ACACTCCTGAGGACCCCCAACTGGCGGCCCCGGTTCAAGTACTATCACTGGGCGCTGTCCTTCCTGGGCATGAGT
CTCTGCCTGGCCCTTATGTTTGTCTCCTCCTGGTACTATGCCCTGGTGGCCATGCTCATCGCCGGCATGATCTAC
AAATACATCGAGTACCAAGGGGCTGAGAAGGAGTGGGGTGACGGGATCCGAGGCCTGTCCCTGAGCGCTGCCCGC
TACGCGCTGTTGCGGCTGGAGGAGGGGCCTCCTCACACCAAGAACTGGCGGCCGCAGCTGCTGGTGCTGCTGAAG
CTGGACGAGGACCTCCACGTGAAGTACCCGCGGCTCCTCACCTTCGCCTCCCAGCTCAAGGCTGGCAAGGGCCTG
ACCATTGTTGGTTCTGTCATCCAGGGGAGCTTCTTGGAGAGCTATGGCGAGGCTCAGGCCGCCGAGCAGACCATC
AAGAACATGATGGAAATTGAGAAGGTGAAGGGCTTCTGCCAGGTGGTGGTGGCCAGCAAGGTGCGGGAGGGGCTG
GCCCACCTCATCCAGTCCTGTGGCCTGGGAGGCATGCGGCATAACTCCGTGGTGCTGGGCTGGCCCTACGGCTGG
CGACAGAGCGAGGACCCCCGTGCCTGGAAGACCTTCATTGACACCGTGCGCTGCACTACGGCTGCCCACCTGGCC
CTGCTCGTGCCCAAGAACATCGCCTTCTACCCCAGCAACCACGAGCGCTACCTGGAGGGCCACATAGACGTGTGG
TGGATCGTGCACGATGGTGGCATGCTCATGCTTCTGCCCTTCCTGCTGCGCCAGCATAAGGTCTGGAGGAAGTGC
CGGATGCGCATCTTCACAGTGGCCCAGATGGATGACAACAGCATCCAGATGAAGAAGGACCTGGCTGTCTTTCTG
TACCATCTGCGCCTTGAGGCCGAGGTGGAGGTGGTGGAGATGCATAACAGTGACATCTCTGCATACACCTACGAG
CGGACGCTGATGATGGAGCAGCGGTCGCAGATGCTGCGGCAGATGAGACTGACCAAGACTGAGCGGGAGCGAGAA
GCCCAGCTGGTCAAGGATCGGCACTCGGCCCTGAGGCTGGAGAGCCTGTACTCGGACGAGGAAGATGAGTCTGCA
GTGGGGGCTGACAAGATCCAGATGACGTGGACCAGGGACAAGTACATGACTGAGACCTGGGACCCCAGCCATGCC
CCTGACAATTTCCGGGAGCTGGTGCACATTAAGCCGGACCAATCCAATGTGCGGCGCATGCACACTGCTGTGAAG
CTCAATGAAGTCATTGTCACGCGCTCCCACGACGCCCGCCTGGTTCTCCTAAACATGCCTGGCCCACCCAGGAAC
AGTGAGGGCGACGAGAACTACATGGAGTTCCTCGAGGTGCTGACCGAGGGCCTTGAGCGGGTGCTGTTGGTGCGC
GGTGGTGGCCGTGAAGTCATCACCATCTACTCCTGAGCCCAGTGTCATCTTGTGGCCTGGAGTCGAGGTCTTGGC
CAGGACATAACAAGCTGTGGTCTGGGGTAACAGCCTCTTCCCAGCACCCACCTGCCAGCCCTGCTTGCCTGGCCC
TGTCCTGGACCCAGCTTTGCTAGGTCTCCTTGGAAACCAGGCCTGGGCCTCAAAATGGAGATGGATCCCAGGTCT
TGTGGGACCCTGGGATGTTTGGGGACTTTACTATCTAGCACCCCAGTAGGCCTGTCCTGGCCAGAGAAGACTGGT
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## FIGURE 4581B

AGGGGCCGAGTGGGGTTTGAAGGCAGCCGGCCCGGCCCAGCCCAGGAGCGCTATTTATTGCATATTTATTGTTTG
GATGTCACCATCAGAGACGAAGGGAAGGGTAGCCAGGGAGGGAGTCCAGCCCAGCTGCCTGCAGGAAGATCTGGC
TCAGTCTACTATGGGCAGGGCCCCCCACCAAGCTGAGCCGAATGGAGACAGCTGAGCTGAGGCCTGACTTTTTCA
ATAAAACATTGTGTAGTTCTGGGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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# FIGURE 4582

MPHFTVVPVDGPRRGDYDNLEGLSWVDYGERAELDDSDGHGNHRESSPFLSPLEASRGIDYYDRNLALFEEELDI
RPKVSSLLGKLVSYTNLTQGAKEHEEAESGEGTRRRAAEAPSMGTLMGVYLPCLQNIFGVILFLRLTWMVGTAGV
LQALLIVLICCCCTLLTAISMSAIATNGVVPAGGSYFMISRSLGPEFGGAVGLCFYLGTTFAAAMYILGAIEILL
TYIAPPAAIFYPSGAHDTSNATLNNMRVYGTIFLTFMTLVVFVGVKYVNKFASLFLACVIISILSIYAGGIKSIF
DPPVFPVCMLGNRTLSRDQFDICAKTAVVDNETVATQLWSFFCHSPNLTTDSCDPYFMLNNVTEIPGIPGAAAGV
LQENLWSAYLEKGDIVEKHGLPSADAPSLKESLPLYVVADIATSFTVLVGIFFPSVTGIMAGSNRSGDLRDAQKS
IPVGTILAIITTSLVYFSSVVLFGACIEGVVLRDKYGDGVSRNLVVGTLAWPSPWVIVIGSFFSTCGAGLQSLTG
APRLLQAIAKDNIIPFLRVFGHGKVNGEPTWALLLTALIAELGILIASLDMVAPILSMFFLMCYLFVNLACAVQT
LLRTPNWRPRFKYYHWALSFLGMSLCLALMFVSSWYYALVAMLIAGMIYKYIEYQGAEKEWGDGIRGLSLSAARY
ALLRLEEGPPHTKNWRPQLLVLLKLDEDLHVKYPRLLTFASQLKAGKGLTIVGSVIQGSFLESYGEAQAAEQTIK
NMMEIEKVKGFCQVVVASKVREGLAHLIQSCGLGGMRHNSVVLGWPYGWRQSEDPRAWKTFIDTVRCTTAAHLAL
LVPKNIAFYPSNHERYLEGHIDVWWIVHDGGMLMLLPFLLRQHKVWRKCRMRIFTVAQMDDNSIQMKKDLAVFLY
HLRLEAEVEVVEMHNSDISAYTYERTLMMEQRSQMLRQMRLTKTEREREAQLVKDRHSALRLESLYSDEEDESAV
GADKIQMTWTRDKYMTETWDPSHAPDNFRELVHIKPDQSNVRRMHTAVKLNEVIVTRSHDARLVLLNMPGPPRNS
EGDENYMEFLEVLTEGLERVLLVRGGGREVITIYS

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# FIGURE 4583

ATCGCCAGCCTCCAGTCCTGCCTCCACGACGCGCCCTTCCCCAAGGCTGGCCGGGTCTGGATGTCGCCATCCCCT
ATTCGGAGCTACAGACCTCGCAGCTGAACTCTTAAAAAGAACCTCGCTTCTTCCTCACGGTGCTCCAGCTCCACA
CACCGTACTGAGCCTCGCCAGCCACCGTACGCGAGGTCGCGGCGCGTCCGTGACGTCACTGATGTGCGCTTCTCC
CGCACTAAGGGAAACATGGCTCTAACGCGGCCGGTGCGGCTCTTTTCCCTCGTGACTCGGTTGCTCCTGGCGCCG
CGACGGGGCCTCACGGTCCGCAGTCCCGACGAACCCCTGCCGGTGGTGCGCATCCCAGTGGCTCTACAGCGGCAG
TTGGAACAGCGGCAGAGCAGGCGGCGGAACCTCCCGAGGCCGGTGCTGGTTCGACCCGGACCGCTGCTGGTTTCG
GCGCGGCGGCCGGAGTTGAACCAGCCGGCGCGCCTCACACTGGGCCGTTGGGAGCGCGCGCCGCTAGCCTCTCAA
GGCTGGAAGAGTCGACGCGCGCGTCGGGACCACTTCTCCATCGAGCGCGCGCAACAGGAGGCGCCAGCGGTGCGA
AAGCTCTCGTCTAAGGGCAGCTTTGCTGACCTGGGCCTGGAGCCCCGTGTGCTGCACGCACTACAGGAGGCTGCG
CCTGAAGTCGTTCAGCCCACAACCGTGCAGTCTAGCACCATCCCCTCACTACTTCGCGGCCGCCATGTCGTTTGC
GCCGCAGAAACCGGCAGTGGCAAGACTCTCAGCTACCTCCTGCCGCTGCTTCAACGGCTCTTGGGCCAGCCAAGC
CTGGACTCCCTTCCTATCCCCGCGCCCCGAGGCCTGGTCCTTGTTCCTTCCCGAGAATTGGCCCAACAGGTGCGG
GCTGTGGCCCAACCCTTGGGCCGCTCCTTGGGCCTGCTGGTGCGGGACCTGGAGGGAGGCCACGGCATGCGTAGG
ATCAGGCTGCAGCTGTCCAGACAGCCTTCAGCAGATGTGCTTGTGGCCACTCCAGGGGCTCTGTGGAAGGCCCTG
AAAAGTCGACTGATCAGTCTGGAGCAACTCTCCTTCTTGGTGTTGGATGAGGCAGACACACTGCTGGATGAAAGC
TTCCTGGAACTGGTGGACTACATCTTAGAGAAGAGCCACATAGCAGAAGGCCCAGCTGACTTGGAAGACCCCTTC
AATCCCAAAGCTCAGTTAGTGCTGGTAGGAGCCACATTTCCCGAAGGTGTAGGCCAGTTGCTGAATAAAGTCGCC
AGCCCAGATGCTGTCACCACCATCACCAGCTCCAAGCTCCACTGTATCATGCCTCATGTGAAACAGACATTTCTG
AGACTGAAGGGAGCAGATAAGGTGGCCGAGCTGGTGCACATCCTCAAGCATCGTGACAGAGCAGAAAGGACTGGT
CCCTCAGGAACTGTTCTGGTGTTCTGTAATAGCTCCAGCACTGTGAACTGGCTGGGATATATTCTGGATGACCAC
AAAATCCAACACCTAAGGTTGCAGGGGCAAATGCCAGCCTTGATGAGGGTAGGAATCTTCCAGTCCTTCCAGAAG
AGCTCCCGAGACATACTTCTCTGCACAGACATAGCCTCTCGGGGCCTGGACAGCACTGGTGTGGAGCTGGTTGTC
AATTATGATTTCCCCCCAACGCTGCAAGATTACATCCACAGAGCAGGGAGAGTGGGCCGTGTGGGGAGCGAGGTG
CCAGGCACCGTCATCAGTTTTGTGACCCATCCCTGGGATGTGAGCCTGGTTCAGAAGATTGAGCTGGCGGCTCGC
CGAAGGAGAAGTCTTCCAGGACTAGCATCCTCGGTGAAAGAGCCTTTGCCCCAAGCAACCTGATTTGACAAATC
TGATTAAAATGTGATGCTAGAACAGGGATCTTTCCCAGTATCTTGAGTGGGTGACCACACTTGTCAGTGGGAGGC
TCTGGGCTGCCCTGTCGGCTCCTTGAGGGCGGGATGAACTGCTTTGTGACTTGGAAAGGTACGCTGCTGGCCAGC
ATTGGAGAAGAAGCTGCTGAGCATGGCTTTCTGTAGTCTTTAGCAAGACACAAGTGGATTTTGACTTTGTATCAT
GTCATGATTTCTAACAATAAATGATGTTTTTATGTGC

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# FIGURE 4584

GGCACGAGGTGGAGCACCGTGAGGAAGAAGCGAGGTTCTTTTTAAGAGTTCAGCTGCGAGATATCAAACAAAGAA
TTACTCTGTACAAAGCCAGAACACATATATCAAAGTAATCCTGAAGTATCAGAACAAAATAATAGGCTGTAACAG
AGGAGGAA**ATG**ATTTTGAATAGCCTCTCTCTGTGTTACCATAATAAGCTAATCCTGGCCCCAATGGTTCGGGTAG
GGACTCTTCCAATGAGGCTGCTGGCCCTGGATTATGGAGCGGACATTGTTTACTGTGAGGAGCTGATCGACCTCA
AGATGATTCAGTGCAAGAGAGTTGTTAATGAGGTGCTCAGCACAGTGGACTTTGTCGCCCCTGATGATCGAGTTG
TCTTCCGCACCTGTGAAAGAGAGCAGAACAGGGTGGTCTTCCAGATGGGGACTTCAGACGCAGAGCGAGCCCTTG
CTGTGGCCAGGCTTGTAGAAAATGATGTGGCTGGTATTGATGTCAACATGGGCTGTCCAAAACAATATTCCACCA
AGGGAGGAATGGGAGCTGCCCTGCTGTCAGACCCTGACAAGATTGAGAAGATCCTCAGCACTCTTGTTAAAGGGA
CACGCAGACCTGTGACCTGCAAGATTCGCATCCTGCCATCGCTAGAAGATACCCTGAGCCTTGTGAAGCGGATAG
AGAGGACTGGCATTGCTGCCATCGCAGTTCATGGGAGGAAGCGGGAGGAGCGACCTCAGCATCCTGTCAGCTGTG
AAGTCATCAAAGCCATTGCTGATACCCTCTCCATTCCTGTCATAGCCAACGGAGGATCTCATGACCACATCCAAC
AGTATTCGGACATAGAGGACTTTCGACAAGCCACGGCAGCCTCTTCCGTGATGGTGGCCCGAGCAGCCATGTGGA
ACCCATCTATCTTCCTCAAGGAGGGTCTGCGGCCCCTGGAGGAGGTCATGCAGAAATACATCAGATACGCGGTGC
AGTATGACAACCACTACACCAACACCAAGTACTGCTTGTGCCAGATGCTACGAGAACAGCTGGAGTCGCCCCAGG
GAAGGTTGCTCCATGCTGCCCAGTCTTCCCGGGAAATTTGTGAGGCCTTTGGCCTTGGTGCCTTCTATGAGGAGA
CCACACAGGAGCTGGATGCCCAGCAGGCCAGGCTCTCAGCCAAGACTTCAGAGCAGACAGGGGAGCCAGCTGAAG
ATACCTCTGGTGTCATTAAGATGGCTGTCAAGTTTGACCGGAGAGCATACCCAGCCCAGATCACCCCTAAGATGT
GCCTACTAGAGTGGTGCCGGAGGGAGAAGTTGGCACAGCCTGTGTATGAAACGGTTCAACGCCCTCTAGATCGCC
TGTTCTCCTCTATTGTCACCGTTGCTGAACAAAAGTATCAGTCTACCTTGTGGGACAAGTCCAAGAAACTGGCGG
AGCAGGCTGCAGCCATCGTCTGTCTGCGGAGCCAGGGCCTCCCTGAGGGTCGGCTGGGTGAGGAGAGCCCTTCCT
TGCACAAGCGAAAGAGGGAGGCTCCTGACCAAGACCCTGGGGGCCCCAGAGCTCAGGAGCTAGCACAACCTGGGG
ATCTGTGCAAGAAGCCCTTTGTGGCCTTGGGAAGTGGTGAAGAAAGCCCCCTGGAAGGCTGG**TGA**CTACTCTTCC
TGCCTTAGTCACCCCTCCATGGGCCTGGTGCTAAGGTGGCTGTGGATGCCACAGCATGAACCAGATGCCGTTGAA
CAGTTTGCTGGTCTTGCCTGGCAGAAGTTAGATGTCCTGGCAGGGGCCATCAGCCTAGAGCATGGACCAGGGGCC
GCCCAGGGGTGGATCCTGGCCCCTTTGGTGGATCTGAGTGACAGGGTCAAGTTCTCTTTGAAAACAGGAGCTTTT
CAGGTGGTAACTCCCCAACCTGACATTGGTACTGTGCAATAAAGACACCCCCTACCCTCAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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## FIGURE 4585

MILNSLSLCYHNKLILAPMVRVGTLPMRLLALDYGADIVYCEELIDLKMIQCKRVVNEVLSTVDFVAPDDRVVFR
TCEREQNRVVFQMGTSDAERALAVARLVENDVAGIDVNMGCPKQYSTKGGMGAALLSDPDKIEKILSTLVKGTRR
PVTCKIRILPSLEDTLSLVKRIERTGIAAIAVHGRKREERPQHPVSCEVIKAIADTLSIPVIANGGSHDHIQQYS
DIEDFRQATAASSVMVARAAMWNPSIFLKEGLRPLEEVMQKYIRYAVQYDNHYTNTKYCLCQMLREQLESPQGRL
LHAAQSSREICEAFGLGAFYEETTQELDAQQARLSAKTSEQTGEPAEDTSGVIKMAVKFDRRAYPAQITPKMCLL
EWCRREKLAQPVYETVQRPLDRLFSSIVTVAEQKYQSTLWDKSKKLAEQAAAIVCLRSQGLPEGRLGEESPSLHK
RKREAPDQDPGGPRAQELAQPGDLCKKPFVALGSGEESPLEGW

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# FIGURE 4586A

CGGCTGCGGTTCCTGGTGCTGCTCGGCGCGCGGCCAGCTTTCGGAACGGAACGCTCGGCGTCGCGGGCCCCGCCC
GGAAAGTTTGCCGTGGAGTCGCGACCTCTTGGCCCGCGCGGCCCGGCATGAAGCGGCGTTGAGGAGCTGCTGCCG
CCGCTTGCCGCTGCCGCCGCCGCCGCCTGAGGAGGAGCTGCAGCACCCTGGGCCACGCCG**ATG**ACTACTGCAAAC
TGTGGCGCCCACGACGAGCTCGACTTCAAACTCGTCTTTGGCGAGGACGGGGCGCCGGCGCCGCCGCCCCCGGGC
TCGCGGCCTGCAGATCTTGAGCCAGATGATTGTGCATCCATTTACATCTTTAATGTAGATCCACCTCCATCTACT
TTAACCACACCACTTTGCTTACCACATCATGGATTACCGTCTCACTCTTCTGTTTTGTCACCATCGTTTCAGCTC
CAAAGTCACAAAAACTATGAAGGAACTTGTGAGATTCCTGAATCTAAATATAGCCCATTAGGTGGTCCCAAACCC
TTTGAGTGCCCAAGTATTCAAATTACATCTATCTCTCCTAACTGTCATCAAGAATTAGATGCACATGAAGATGAC
CTACAGATAAATGACCCAGAACGGGAATTTTTGGAAAGGCCTTCTAGAGATCATCTCTATCTTCCTCTTGAGCCA
TCCTACCGGGAGTCTTCTCTTAGTCCTAGTCCTGCCAGCAGCATCTCTTCTAGGAGTTGGTTCTCTGATGCATCT
TCTTGTGAATCGCTTTCACATATTTATGATGATGTGGACTCAGAGTTGAATGAAGCTGCAGCCCGATTTACCCTT
GGATCCCCTCTGACTTCTCCTGGTGGCTCTCCAGGGGGCTGCCCTGGAGAAGAAACTTGGCATCAACAGTATGGA
CTTGGACACTCATTATCACCCAGGCAATCTCCTTGCCACTCTCCTAGATCCAGTGTCACTGATGAGAATTGGCTG
AGCCCCAGGCCAGCCTCAGGACCCTCATCAAGGCCCACATCCCCCTGTGGGAAACGGAGGCACTCCAGTGCTGAA
GTTTGTTATGCTGGGTCCCTTTCACCCCATCACTCACCTGTTCCTTCACCTGGTCACTCCCCCAGGGGAAGTGTG
ACAGAAGATACGTGGCTCAATGCTTCTGTCCATGGTGGGTCAGGCCTTGGCCCTGCAGTTTTTCCATTTCAGTAC
TGTGTAGAGACTGACATCCCTCTCAAAACAAGGAAAACTTCTGAAGATCAAGCTGCCATACTACCAGGAAAATTA
GAGCTGTGTTCAGATGACCAAGGGAGTTTATCACCAGCCCGGGAGACTTCAATAGATGATGGCCTTGGATCTCAG
TATCCTTTAAAGAAAGATTCATGTGGTGATCAGTTTCTTTCAGTTCCTTCACCCTTTACCTGGAGCAAACCAAAG
CCTGGCCACACCCCTATATTTCGCACATCTTCATTACCTCCACTAGACTGGCCTTTACCAGCTCATTTTGGACAA
TGTGAACTGAAAATAGAAGTGCAACCTAAAACTCATCATCGAGCCCATTATGAAACTGAAGGTAGCCGAGGGGCA
GTAAAAGCATCTACTGGGGGACATCCTGTTGTGAAGCTCCTGGGCTATAACGAAAAGCCAATAAATCTACAAATG
TTTATTGGGACAGCAGATGATCGATATTTACGACCTCATGCATTTTACCAGGTGCATCGAATCACTGGGAAGACA
GTCGCTACTGCAAGCCAAGAGATAATAATTGCCAGTACAAAAGTTCTGGAAATTCCACTTCTTCCTGAAAATAAT
ATGTCAGCCAGTATTGATTGTGCAGGTATTTTGAAACTCCGCAATTCAGATATAGAACTTCGAAAAGGAGAAACT
GATATTGGCAGAAAGAATACTAGAGTACGACTTGTGTTTCGTGTACACATCCCACAGCCCAGTGGAAAAGTCCTT
TCTCTGCAGATAGCCTCTATACCCGTTGAGTGCTCCCAGCGGTCTGCTCAAGAACTTCCTCATATTGAGAAGTAC
AGTATCAACAGTTGTTCTGTAAATGGAGGTCATGAAATGGTTGTGACTGGATCTAATTTTCTTCCAGAATCCAAA
ATCATTTTTCTTGAAAAAGGACAAGATGGACGACCTCAGTGGGAGGTAGAAGGGAAGATAATCAGGGAAAAATGT
CAAGGGGCTCACATTGTCCTTGAAGTTCCTCCATATCATAACCCAGCAGTTACAGCTGCAGTGCAGGTGCACTTT
TATCTTTGCAATGGCAAGAGGAAAAAAAGCCAGTCTCAACGTTTTACTTATACACCAGTTTTGATGAAGCAAGAA
CACAGAGAAGAGATTGATTTGTCTTCAGTTCCATCTTTGCCTGTGCCTCATCCTGCTCAGACCCAGAGGCCTTCC
TCTGATTCAGGGTGTTCACATGACAGTGTACTGTCAGGACAGAGAAGTTTGATTTGCTCCATCCCACAAACATAT
GCATCCATGGTGACCTCATCCCATCTGCCACAGTTGCAGTGTAGAGATGAGAGTGTTAGTAAAGAACAGCATATG
ATTCCTTCTCCAATTGTACACCAGCCTTTTCAAGTCACACCAACACCTCCTGTGGGGTCTTCCTATCAGCCTATG
CAAACTAATGTTGTGTACAATGGACCAACTTGTCTTCCTATTAATGCTGCCTCTAGTCAAGAATTTGATTCAGTT
TTGTTTCAGCAGGATGCAACTCTTTCTGGTTTAGTGAATCTTGGCTGTCAACCACTGTCATCCATACCATTTCAT
TCTTCAAATTCAGGCTCAACAGGACATCTCTTAGCCCATACACCTCATTCTGTGCATACCCTGCCTCATCTGCAA
TCAATGGGATATCATTGTTCAAATACAGGACAAAGATCTCTTTCTTCTCCAGTGGCTGACCAGATTACAGGTCAG
CCTTCGTCTCAGTTACAACCTATTACATATGGTCCTTCACATTCAGGGTCTGCTACAACAGCTTCCCCAGCAGCT
TCTCATCCCTTGGCTAGTTCACCGCTTTCTGGGCCACCATCTCCTCAGCTTCAGCCTATGCCTTACCAATCTCCT
AGCTCAGGAACTGCCTCATCACCGTCTCCAGCCACCAGAATGCATTCTGGACAGCACTCAACTCAAGCACAAAGT
ACGGGCCAGGGGGGTCTTTCTGCACCTTCATCCTTAATATGTCACAGTTTGTGTGATCCAGCGTCATTTCCACCT
GATGGGCAACTGTGAGCATTAAACCTGAACCAGAAGATCGAGAGCCTAACTTTGCAACCATTGGTCTGCAGGAC
ATCACTTTAGATGATGACCAATTTATATCTGACTTGGAACACCAGCCATCAGGTTCAGCAGAGAAATGGCCTAAC
CACAGTGTGCTCTCATGTCCAGCTCCTTTCTGGAGAATC**TAG**AGGTGAACGAGATAATTGGGAGAGACATGTCCC
AGATTTCTGTTTCCCAAGGAGCAGGGGTGAGCAGGCAGGCTCCCCTCCCGAGTCCTGAGTCCCTGGATTTAGGAA
GATCTGATGGGCTCTAACAGTGCTTACTGCAGCCTTGTGTCCACCACCAACTTCTCAGCATGTTTCTCTCCTTGG

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## FIGURE 4586B

ACCTTGGGTTTCCAACTCTGCAGCCTTCAGGTCTGGGGCCAGGAGTGGGACCCACCATTTGTGGGGAAAGTAGCA
TTCCTCCACCTCAGGCCTTGGGTAGATTTGGCAAAAGAACAGGAGCAGCATAGGCTGTTTGAGCTTTGGGGAAAT
GAACTTTGCTTTTTATATTTAACTAGGATACTTTTATATGATGGGTGCTTTGAGTGTGAATGCAGCAGGCTCTCT
TGTTTCCGAGGTGCTGCTTTTGCAGGTGACCTGGTTACTTAGCTAGGATTGGTGATTTGTACTGCTTTATGGTCA
TTTGAAGGGCCCTTTAGTTTTTATGATAATTTTTAAAATAGGAACTTTTGATAAGACCTTCTAGAAGCC

# FIGURE 4587

MTTANCGAHDELDFKLVFGEDGAPAPPPPGSRPADLEPDDCASIYIFNVDPPPSTLTTPLCLPHHGLPSHSSVLS
PSFQLQSHKNYEGTCEIPESKYSPLGGPKPFECPSIQITSISPNCHQELDAHEDDLQINDPEREFLERPSRDHLY
LPLEPSYRESSLSPSPASSISSRSWFSDASSCESLSHIYDDVDSELNEAAARFTLGSPLTSPGGSPGGCPGEETW
HQQYGLGHSLSPRQSPCHSPRSSVTDENWLSPRPASGPSSRPTSPCGKRRHSSAEVCYAGSLSPHHSPVPSPGHS
PRGSVTEDTWLNASVHGGSGLGPAVFPFQYCVETDIPLKTRKTSEDQAAILPGKLELCSDDQGSLSPARETSIDD
GLGSQYPLKKDSCGDQFLSVPSPFTWSKPKPGHTPIFRTSSLPPLDWPLPAHFGQCELKIEVQPKTHHRAHYETE
GSRGAVKASTGGHPVVKLLGYNEKPINLQMFIGTADDRYLRPHAFYQVHRITGKTVATASQEIIIASTKVLEIPL
LPENNMSASIDCAGILKLRNSDIELRKGETDIGRKNTRVRLVFRVHIPQPSGKVLSLQIASIPVECSQRSAQELP
HIEKYSINSCSVNGGHEMVVTGSNFLPESKIIFLEKGQDGRPQWEVEGKIIREKCQGAHIVLEVPPYHNPAVTAA
VQVHFYLCNGKRKKSQSQRFTYTPVLMKQEHREEIDLSSVPSLPVPHPAQTQRPSSDSGCSHDSVLSGQRSLICS
IPQTYASMVTSSHLPQLQCRDESVSKEQHMIPSPIVHQPFQVTPTPPVGSSYQPMQTNVVYNGPTCLPINAASSQ
EFDSVLFQQDATLSGLVNLGCQPLSSIPFHSSNSGSTGHLLAHTPHSVHTLPHLQSMGYHCSNTGQRSLSSPVAD
QITGQPSSQLQPITYGPSHSGSATTASPAASHPLASSPLSGPPSPQLQPMPYQSPSSGTASSPSPATRMHSGQHS
TQAQSTGQGGLSAPSSLICHSLCDPASFPPDGATVSIKPEPEDREPNFATIGLQDITLDDDQFISDLEHQPSGSA
EKWPNHSVLSCPAPFWRI

## FIGURE 4588A

GGCACGAGGGCACCATTGGATGCTTACTTTCAGGTGAGCAGGACCCAGCCTGACTTGCCAGCTACCACTTATGAT
TCAGAGACTAGGAATCCTGTATCTGAAGAGTTGCAGGTGTCTAGTAGTTCTGATTCTGACAGTGACAGCTCTGCA
GAGTATGGAGGGGTTGTTGACCAGGCAGAGGAATCTGGAGCTGTCATTTTAGAAGAGCAACTAGCAGGTGTCTCA
GCAGAGCAAGAAGTTACATGTATCGATGGAGGCAAGACCCTCCCCAAACAGCCATCTCCCCAGAAGTCTGAGCCT
CTGCTACCTTCTGCTTCTATGGATGAGGAAGAAGGGGACACTTGTACAATATGTCTGGAACAGTGGACCAATGCT
GGGGACCACCGGCTCTCAGCATTACGCTGTGGGCATCTCTTTGGGTATAGGTGCATTTCCACGTGGCTTAAAGGA
CAAGTACGAAAATGTCCCCAGTGCAACAAGAAAGCCAGGCACAGTGACATTGTCGTCCTTTATGCCCGAACCCTG
AGAGCTTTGGACACTAGTGAACAGGAGCGCATGAAAAGTTCCCTACTGAAGGAACAGATGCTAAGGAAACAGGCC
GAGTTAGAATCAGCACAGTGCCGACTCCAACTGCAGGTCCTCACTGATAAGTGCACTAGGCTTCAAAGGCGTGTT
CAGGACTTGCAAAAACTTACGTCACATCAAAGTCAGAATTTACAGCAACCCAGGGGCTCCCAAGCATGGGTCCTG
AGCTGCTCACCCTCCAGCCAGGGCCAGCACAAGCACAAGTACCACTTCCAAAAGACCTTCACAGTATCTCAGGCA
GGAAACTGCCGGATCATGGCATACTGTGATGCTCTGAGCTGCCTGGTGATATCACAGCCTTCTCCTCAGGCCTCT
TTTCTTCCAGGCTTTGGTGTTAAGATGTTGAGTACTGCCAACATGAAGAGCAGTCAGTACATTCCGATGCATGGC
AAACAGATCCGTGGACTGGCGTTTAGCAGTTACCTCAGAGGCTTGCTACTCTCTGCTTCCCTAGACAACACTATT
AAACTGACCAGCCTGGAGACAAATACCGTGGTCCAGACTTATAATGCTGGACGTCCTGTCTGGAGCTGTTGCTGG
TGTCTTGATGAGGCTAACTACATCTATGCTGGACTGGCCAATGGTTCAATTCTGGTATATGACGTGCGAAACACG
AGCAGTCATGTGCAGGAGTTAGTAGCTCAGAAAGCCAGATGCCCACTGGTCTCCCTGTCATACATGCCCAGAGCT
GCCTCAGCTGCATTTCCATATGGTGGGGTGCTGGCTGGAACCTTGGAGGATGCTTCATTCTGGGAACAGAAAATG
GACTTTTCTCATTGGCCTCATGTGCTGCCCTTGGAGCCAGGGGGCTGCATAGACTTTCAGCAGAGAACAGCTCC
CGGCACTGTCTTGTGACCTACAGGCCTGATAAAAATCACACCACCATACGAAGTGTGCTGATGGAAATGTCCTAC
CGACTGGATGACACTGGAAATCCAATCTGCTCCTGCCAGCCTGTACATACATTTTTTGGAGGACCTACTTGCAAA
CTATTGACCAAAAATGCCATTTTCCAAAGCCCAGAGAATGATGGCAACATCCTGGTGTGTACTGGGGATGAAGCA
GCAAATTCTGCCCTGCTGTGGGATGCTGCCAGTGGCTCGTTGCTCCAGGACCTACAGACCGATCAGCCTGTGTTG
GACATCTGCCCATTTGAGGTGAACCGTAACAGCTACTTGGCTACCTTAACAGAGAAGATGGTCCACATCTATAAG
TGGGAGTGACTGTGGTCTCGAAACCTTGAAGGCATGCTGCTGGTTAGATGTTGTTTGCTAGCGCCTAGCAGCCCC
AAGCAAGATCCCTGTTTATTGTCTGCAGTCTAGAACATTGGGAATCATGGTTTGTTTGCATTAGTATGATTCTAG
GACCCTAGGTCACTGAGACACTACAGATTGTGTATCTGTTATGTCCACTAAAAGAGTAATTGATGGGTACTTTAT
CTACATTATCCATTTCTTGGGTTTAAAGCCTTCATTAACCATTATTGTATGTTGGAAATTCTTATTTTCTTTATT
TTCTGTGTGACTTTCTGGACCTTAGAGAGTGTCCTCTCATCATCTAGGATGTGAGTGGGCATCAAGCATTTTCTG
GGGAATATGACATCCCATCTGAGTTGTCCTGTCACTTAAGTATCCTTGAAGGGACTAACCATCGTCTTGGTACTG
ATTTGATGCAACGTAGATGTAAAAGAGTATTATTCAGTTGAACACAAGAGGGCACTGTAGAACCTTGTGTCCGGT
TTATTTCTGACCTTGAAGGCTGACAATCTTTTAGTAACTTGTCTCATCTCCACACAAGTGTGTGATAGCACACCT
GGGTGTGCTTTGTGGCAATAACACTTGTGTTCCAGGTGTGAAGTGCTGGGACATTGGCAGGCCCAGTGATGGAAG
CAGCTAGTGAACGATTCCCTTTGCTAATGCCTAGTGCATTAAGTTCATTGCTTTGCGAAAGGTAAGGAAAGAGGC
CAGTTGTTTGAGCGGTGGGGAAGATTTTGTTTTTTCTAGCCAGCTTAGGATCTCAGGATTGGTTTATCCAAGCT
AGTGCTTTGAAGAACACTATCTCTTGCCAGGAAAAGATGAGTGATAGGTCAAAGCTTTTACTTGAGTCTCCCCTA
GTGTCAGAGATCAGGAGAAAAGACATAAGAGAATTTACAAAAGCTATTCAGACTGCTATTGAAAACATGAGAAGA
ACTTGTCTCCCATTTTGAGAGTTCCTATCTAAATAAAGCCAATTCCTCAGACTGAGGGGCTGTTCTTAAGTGTTC
TTTATACATTCCAGTTATCCAGTTAAAGCCTTCCCCATGTGAAGCTGATGTTTGATTCCAGTTTCCTTTGATTTG
CCTCCCTAACCTTTTCTAGGGCTCAGTTTGTATTTCTTGCCTTGCCTCAGACTACTTTGCCAACCCACTTCCAC
AACAGAATATGCTTCAAGATGTGGGCAGGTCAGTGTCCTGTTCATGGGAGAAAATGGCTTAACAGTCTGATTTTC
TCAAATGATTATTGAAGAGTTGTTATCGTTTTTATTATAAAACACTTCTGACCTGTCAATTCAAGAGCTGTTTCT
AGGATCTTTCTCTCCGGCAAGGGGTTGTTGCACTAGATTTCCCCAGAGTTCCAAGTTCTAGTTGTGCCTTTTAAT
GACCCTTTAATATTTTAGGACATAATTTTTTCCTTTTTTAAATTTTTTTGTAGAAATAGATGTTTCACTACGTTG
TCCAGGCTGGTCTTGGACTCCTGGCCTCAAGCAATCCTCCCACCTCAGCCTCCTAAAGTGCCAAAATTATAGGCG
TGAGCCACTGCACCCGGCCCCTATTTGAAGACGTCTTTTGTAAAAGCTAGCTTCTAGAACCTGAGAAAAGCTCTT
TTCTCAGAGGAGATACTCCTTTTGATATGTTAATGATTAAGAGTGGTTGCCCAGGCCTAGTTTCAGTGGCAGAAT
AGGATTGGAATTAAAAAGCAGAACTCATCTGGCTTCAGCAGATTGCCACCAAGAGGATACAGGTGGTCAGGTCCT

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## FIGURE 4588B

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GGCTGGCTTTGTCTTTGGGCCTGGGCAGGCTTAGGATTTGACTTTCTTTGAAGTACCTGATGCTGATTGATTCCA
CTAATAGTAGGAAGCAAGAGACTTAACTATGAGGGACGTTATGTGAATCTTAAGTCTTACCAGTCCTTGCATTAG
TACATTAAATTTGGATGTTTTGGAAGCAAATTCATACGATCGTGAGTGATTTCTCCAAAGAAAAAAAGCCTTGTC
CAGCCTGACCAACATGGTGAAACCCCATCTCTACTAAAAATACAAAAATTAACTGGGTGCAGTGGTGCGCATGCC
TGTAGTCCCAGCTACTTGGGAGGCTGAGGCAGGAGAATTGCTTGAACCCTGGGAGGCAGAGGTTGCAGTGAGTCG
AGATCGCGCCACTGCACTCCAGCCTCGGTGACAGAGCAAGACTCCATCTCAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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# FIGURE 4589

MKSSLLKEQMLRKQAELESAQCRLQLQVLTDKCTRLQRRVQDLQKLTSHQSQNLQQPRGSQAWVLSCSPSSQGQH
KHKYHFQKTFTVSQAGNCRIMAYCDALSCLVISQPSPQASFLPGFGVKMLSTANMKSSQYIPMHGKQIRGLAFSS
YLRGLLLSASLDNTIKLTSLETNTVVQTYNAGRPVWSCCWCLDEANYIYAGLANGSILVYDVRNTSSHVQELVAQ
KARCPLVSLSYMPRAASAAFPYGGVLAGTLEDASFWEQKMDFSHWPHVLPLEPGGCIDFQTENSSRHCLVTYRPD
KNHTTIRSVLMEMSYRLDDTGNPICSCQPVHTFFGGPTCKLLTKNAIFQSPENDGNILVCTGDEAANSALLWDAA
SGSLLQDLQTDQPVLDICPFEVNRNSYLATLTEKMVHIYKWE

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# FIGURE 4590

ATGAACTTCACCACTCGCTCCACCTTCTCCACCAACTACCGGTCCCTGGGCTTTGTCCAGGCGCCCAGCTACAGT
GCCCGGCCAGTCAGCAGCATGGCCAGCGTCTATGCAGGCACCAGGGGCTCTGGTTCCTGGATCTCCATGTCCCAC
TCCGCCAGCTTCTGGGGCGGCATGGGGTCTGGGGGCCTGTCCGCGGGGATGGCTGGGGGTCTTGCAAGAATGGGA
GGCATCCAGAACAAGAAGGAGACCATGCAAAGCCTGAAGTACTGCCTGACCTCCTACCTGAACACAGTGAGGAAC
CTGGAGATGGAGAACTGGAAGCTAGAGAGCAAAATCCGGGAGCACCTGGAGAAGAAGGGACCCCAGTTCAGAGAC
TGGAGCCGTTACTTCCAGACCATCAAGGACCTGAGGGCTCAGATCTTCGCAAATACTGTGGACAATGCCTGCATC
GTTCTGCAGATTGACAGTGCCCGTCTTGCAGCTGATGATTTTAGATCTGTGGAGAATGACATCCATGGGCTCTGC
AAGGTCATTGATGACACCAGTGTCACTTGGCTGCAGCTGGAGACAGAGATCAAGGCTCGCAAGGAAGAGCTGCTC
TTCATGAAGAAGAACCACGGAGAGGAAGTAAAAGGCCTACAAGCCCAGATTGCCAGCTCTGGGTTGACCTTGGAG
GACCTCGCCAAGATCATGGCAGACATCTGGGCCCAATATGACAAGCTGGCTCGGAAGAACAGAGAGGAGCTGGAC
AAGTACTGGTCTCAGCAGATTGAGGAGAGCACCACGGTGGTCACCACGCAGTCCGTCAAGGTTGGAGCTGCTGAG
ACGACACTCACGGAGCTGAGATATACAGTCCAGTCCTTGGAGACTGACCTGGACTCAATGAGAAATCTGAAGGCC
AGCTTGGAGAACAGCCTGAGGGAGGTGGAGGCCCGCTACACCCTGCAGATGGAGCAGCTCAACGGGATCCTGCTT
TACCTGGAGTCAGAGCTGGCACAGACCCGGGCAGAGGGGTCCTTCTTACTGATGTGTTGCTCTTCTTCATGGCTC
GTGAAAACTATTAGAGTCATCCAAGATTCTAAGTTCCTGACTCAGAATCTTACTGTTGTGAACCTTTACACCCAG
GTTTGGAGACAGAAAGGAGCACCGCCAAGTGAGGCAGAGCAGTCTCAGAAACATAGGAAAATGGTGGGAAGAGAG
ATCAGCAACGTTAACTGGGTGTCAAGAAAACATACCGAGATTGAAGCCATCCACTTCTGCAGGAACACCGAAAAG
AAAGGTACAACGCTTGGGGAAAGACTGGATTTCATTAGGGACAGTGACAATACCTGTTTGACA**TAG**

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## FIGURE 4591

MNFTTRSTFSTNYRSLGFVQAPSYSARPVSSMASVYAGTRGSGSWISMSHSASFWGGMGSGGLSAGMAGGLARMG
GIQNKKETMQSLKYCLTSYLNTVRNLEMENWKLESKIREHLEKKGPQFRDWSRYFQTIKDLRAQIFANTVDNACI
VLQIDSARLAADDFRSVENDIHGLCKVIDDTSVTWLQLETEIKARKEELLFMKKNHGEEVKGLQAQIASSGLTLE
DLAKIMADIWAQYDKLARKNREELDKYWSQQIEESTTVVTTQSVKVGAAETTLTELRYTVQSLETDLDSMRNLKA
SLENSLREVEARYTLQMEQLNGILLYLESELAQTRAEGSFLLMCCSSSWLVKTIRVIQDSKFLTQNLTVVNLYTQ
VWRQKGAPPSEAEQSQKHRKMVGREISNVNWVSRKHTEIEAIHFCRNTEKKGTTLGERLDFIRDSDNTCLT

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# FIGURE 4592A

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ATAATGGCCGCTTTCAAGGTGTGGATTTTGGCTCCTTGAGCCTGTCTGAGCGAGGGGTGGCAGCGCCGGCGCCCC
AGAATCCGGGACAGAAGGGTCCCAAGAGTCGCGCTTGGTGAGAGAAATCCCAGATCCTGTGATGGGGGACACCAG
TGAGGATGCCTCGATCCATCGATTGGAAGGCACTGATCTGGACTGTCAGGTTGGTGGTCTTATTTGCAAGTCCAA
AAGTGCGGCCAGCGAGCAGCATGTCTTCAAGGCTCCTGCTCCCCGCCCTTCATTACTGGGACTGGACTTGCTGGC
TTCCCTGAAACGGAGAGAGCGAGAGGAGAAGGACGATGGGGAGGACAAGAAGAAGTCCAAAGTCTCCTCCTACAA
GGACTGGGAAGAGAGCAAGGATGACCAGAAGGATGCTGAGGAAGAGGGCGGTGACCAGGCTGGCCAAAATATCCG
GAAAGACAGACATTATCGGTCTGCTCGGGTAGAGACTCCATCCCATCCGGGTGGTGTGAGCGAAGAGTTTTGGGA
ACGCAGTCGGCAGAGAGAGCGGGAGCGGAGGGAACATGGTGTCTATGCCTCGTCCAAAGAAGAAAAGGATTGGAA
GAAGGAGAAATCGCGGGATCGAGACTATGACCGCAAGAGGGACAGAGATGAGCGGGATAGAAGTAGGCACAGCAG
CAGATCAGAGCGAGATGGAGGGTCAGAGCGTAGCAGCAGAAGAAATGAACCCGAGAGCCCACGACATCGACCTAA
AGATGCAGCCACCCCTTCAAGGTCTACCTGGGAGGAAGAGGACAGTGGCTATGGCTCCTCAAGGCGCTCACAGTG
GGAATCGCCCTCCCCGACGCCTTCCTATCGGGATTCTGAGCGGAGCCATCGGCTGTCCACTCGAGATCGAGACAG
GTCTGTGAGGGGCAAGTACTCGGATGACACGCCTCTGCCAACTCCCTCCTACAAATATAACGAGTGGGCCGATGA
CAGAAGACACTTGGGGTCCACCCCGCGTCTGTCCAGGGGCCGAGGAAGACGTGAGGAGGGCGAAGAAGGAATTTC
ATTTGACACGGAGGAGGAGCGGCAGCAGTGGGAAGATGACCAGAGGCAAGCCGATCGGGATTGGTACATGATGGA
CGAGGGCTATGACGAGTTCCACAACCCGCTGGCCTACTCCTCCGAGGACTACGTGAGGAGGCGGGAGCAGCACCT
GCATAAACAGAAGCAGAAGCGCATTTCAGCTCAGCGGAGACAGATCAATGAGGATAACGAGCGCTGGGAGACAAA
CCGCATGCTCACCAGTGGGGTGGTCCATCGGCTGGAGGTGGATGAGGACTTTGAAGAGGACAACGCGGCCAAGGT
GCATCTGATGGTGCACAATCTGGTGCCTCCCTTTCTGGATGGGCGCATTGTCTTCACCAAGCAGCCGGAGCCGGT
GATTCCAGTGAAGGATGCCACTTCTGACCTGGCCATCATTGCTCGGAAAGGCAGCCAGACAGTGCGGAAGCACAG
GGAGCAGAAGGAGCGCAAGAAGGCTCAGCACAAACACTGGGAACTGGCGGGGACCAAACTGGGAGATATAATGGG
CGTCAAGAAGGAGGAAGAGCCAGATAAAGCTGTGACGGAGGATGGGAAGGTGGACTACAGGACAGAGCAGAAGTT
TGCAGATCACATGAAGAGAAAGAGCGAAGCCAGCAGTGAATTTGCAAAGAAGAAGTCCATCCTGGAGCAGAGGCA
GTACCTGCCCATCTTTGCAGTGCAGCAGGAGCTGCTCACTATTATCAGAGACAACAGCATCGTGATCGTGGTTGG
GGAGACGGGGAGTGGTAAGACCACTCAGCTGACGCAGTACCTGCATGAAGATGGTTACACGGACTATGGGATGAT
TGGGTGTACCCAGCCCCGGCGTGTAGCTGCCATGTCAGTGGCCAAGAGAGTCAGTGAAGAGATGGGGGGAAACCT
TGGCGAGGAGGTGGGCTATGCCATCCGCTTTGAAGACTGCACTTCAGAGAACACCTTGATCAAATACATGACTGA
CGGGATCCTGCTCCGAGAGTCCCTCCGGGAAGCCGACCTGGATCACTACAGTGCCATCATCATGGACGAGGCCCA
CGAGCGCTCCCTCAACACTGACGTGCTCTTTGGGCTGCTCCGGGAGGTAGTGGCTCGGCGCTCAGACCTGAAGCT
CATCGTCACATCAGCCACGATGGATGCGGAGAAGTTTGCTGCCTTTTTTGGGAATGTCCCCATCTTCCACATCCC
TGGCCGTACCTTCCCTGTTGACATCCTCTTCAGCAAGACCCCACAGGAGGATTACGTGGAGGCTGCAGTGAAGCA
GTCCTTGCAGGTGCACCTGTCGGGGGGCCCCTGGAGACATCCTTATCTTCATGCCTGGCCAAGAGGACATTGAGGT
GACCTCAGACCAGATTGTGGAGCATCTGGAGGAACTGGAGAACGCGCCTGCCCTGGCTGTGCTGCCCATCTACTC
TCAGCTGCCTTCTGACCTCCAGGCCAAAATCTTCCAGAAGGCTCCAGATGGCGTTCGGAAGTGCATCGTTGCCAC
CAATATTGCCGAGACGTCTCTCACTGTTGACGGCATCATGTTTGTTATCGATTCTGGTTATTGCAAATTAAAGGT
CTTCAACCCCAGGATTGGCATGGATGCTCTGCAGATCTATCCCATTAGCCAGGCCAATGCCAACCAGCGGTCAGG
GCGAGCCGGCAGGACGGGCCCAGGTCAGTGTTTCAGGCTCTACACCCAGAGCGCCTACAAGAATGAGCTCCTGAC
CACCACAGTGCCCGAGATCCAGAGGACTAACCTGGCCAACGTGGTGCTGCTGCTCAAGTCCCTCGGGGTGCAGGA
CCTGCTGCAGTTCCACTTCATGGACCCGCCCCCGGAGGACAACATGCTCAACTCTATGTATCAGCTCTGGATCCT
CGGGGCCCTGGACAACACAGGTGGTCTGACCTCTACCGGGCGGCTGATGGTGGAGTTCCCGCTGGACCCTGCCCT
GTCCAAGATGCTCATCGTGTCCTGTGACATGGGCTGCAGCTCCGAGATCCTGCTCATCGTTTCCATGCTCTCGGT
CCCAGCCATCTTCTACAGGCCCAAGGGTCGAGAGGAGGAGAGTGATCAAATCCGGGAGAAGTTCGCTGTTCCTGA
GAGCGATCATTTGACCTACCTGAATGTTTACCTGCAGTGGAAGAACAATAATTACTCCACCATCTGGTGTAACGA
TCATTTCATCCATGCTAAGGCCATGCGGAAGGTCCGGGAGGTGCGAGCTCAACTCAAGGACATCATGGTGCAGCA
GCGGATGAGCCTGGCCTCGTGTGGCACTGACTGGGACATCGTCAGGAAGTGCATCTGTGCTGCCTATTTCCACCA
AGCAGCCAAGCTCAAGGGAATCGGGGAGTACGTGAACATCCGCACAGGGATGCCCTGCCACTTGCACCCCACCAG
CTCCCTTTTTGGAATGGGCTACACCCCAGATTACATAGTGTATCACGAGTTGGTCATGACCACCAAGGAGTATAT
GCAGTGTGTGACCGCTGTGGACGGGGAGTGGCTGGCGGAGCTGGGCCCCATGTTCTATAGCGTGAAACAGGCGGG
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## FIGURE 4592B

CAAGTCACGGCAGGAGAACCGTCGTCGGGCCAAAGAGGAAGCCTCTGCCATGGAGGAGGAGATGGCGCTGGCCGA
GGAGCAGCTGCGAGCCCGGCGGCAGGAGCAGGAGAAGCGCAGCCCCCTGGGCAGTGTCAGGTCTACGAAGATCTA
CACTCCAGGCCGGAAAGAGCAAGGGGAGCCCATGACCCCTCGCCGCACGCCAGCCCGCTTTGGTCTG**TGA**GCTGA
GGCTGTCCCCAGAGAGGATGGCAGCAGGTATTGGGTCCTCAGCCTTCTGGCGGGAGCCCTGAGGCTGCGGACAAA
GCCCTTTCATCTGAGGACTTTCATCTGTGCATATCACGGCCCCCCAGGGCAGTTCCTGCTGGACCAGACTCTCTG
GCAGAGGAGGTGGAGTTCTTCCATGCAGGAGCACGGCATGGCGGGAGCGGGGCTGCAGAGTATCCGAGGTGCTGC
CGGGGCAGCGGGAGGTGGCTGGACCCATCGCATCTAAAACTGGCCCAGGACACTTGGTGTATGCGTGACTTGGCT
GTGGCTGTCTTTTTTAATCCTTGTGTAAAGCAGCAAAAAAGACCTAAAGGGAATTGTAATTTGGTTATAATTCAG
GATTGGAAATAAATTTATTATTTGTAAAACAAAAAAAAAAAAAAAAAAAA

4977/6881
# FIGURE 4593

MGDTSEDASIHRLEGTDLDCQVGGLICKSKSAASEQHVFKAPAPRPSLLGLDLLASLKRREREEKDDGEDKKKSK
VSSYKDWEESKDDQKDAEEEGGDQAGQNIRKDRHYRSARVETPSHPGGVSEEFWERSRQRERERREHGVYASSKE
EKDWKKEKSRDRDYDRKRDRDERDRSRHSSRSERDGGSERSSRRNEPESPRHRPKDAATPSRSTWEEEDSGYGSS
RRSQWESPSPTPSYRDSERSHRLSTRDRDRSVRGKYSDDTPLPTPSYKYNEWADDRRHLGSTPRLSRGRGRREEG
EEGISFDTEEERQQWEDDQRQADRDWYMMDEGYDEFHNPLAYSSEDYVRRREQHLHKQKQKRISAQRRQINEDNE
RWETNRMLTSGVVHRLEVDEDFEEDNAAKVHLMVHNLVPPFLDGRIVFTKQPEPVIPVKDATSDLAIIARKGSQT
VRKHREQKERKKAQHKHWELAGTKLGDIMGVKKEEEPDKAVTEDGKVDYRTEQKFADHMKRKSEASSEFAKKKSI
LEQRQYLPIFAVQQELLTIIRDNSIVIVVGETGSGKTTQLTQYLHEDGYTDYGMIGCTQPRRVAAMSVAKRVSEE
MGGNLGEEVGYAIRFEDCTSENTLIKYMTDGILLRESLREADLDHYSAIIMDEAHERSLNTDVLFGLLREVVARR
SDLKLIVTSATMDAEKFAAFFGNVPIFHIPGRTFPVDILFSKTPQEDYVEAAVKQSLQVHLSGAPGDILIFMPGQ
EDIEVTSDQIVEHLEELENAPALAVLPIYSQLPSDLQAKIFQKAPDGVRKCIVATNIAETSLTVDGIMFVIDSGY
CKLKVFNPRIGMDALQIYPISQANANQRSGRAGRTGPGQCFRLYTQSAYKNELLTTTVPEIQRTNLANVVLLLKS
LGVQDLLQFHFMDPPPEDNMLNSMYQLWILGALDNTGGLTSTGRLMVEFPLDPALSKMLIVSCDMGCSSEILLIV
SMLSVPAIFYRPKGREEESDQIREKFAVPESDHLTYLNVYLQWKNNNYSTIWCNDHFIHAKAMRKVREVRAQLKD
IMVQQRMSLASCGTDWDIVRKCICAAYFHQAAKLKGIGEYVNIRTGMPCHLHPTSSLFGMGYTPDYIVYHELVMT
TKEYMQCVTAVDGEWLAELGPMFYSVKQAGKSRQENRRRAKEEASAMEEEMALAEEQLRARRQEQEKRSPLGSVR
STKIYTPGRKEQGEPMTPRRTPARFGL

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# FIGURE 4594

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ATTGGGCTGTTGAGCGGGGGCCGACCGACGGCCAGGAGTTTCTTTTCTGCGCTTGTGCGTTTTCTGTTCGGTTTC
CTTCCCGCTAGCGGGGCCACGAGGGTTGCTAGGCAACAGCCCCTGGGTGACTTGGTCTTAGGGTCCTGTCCGGCT
TGGGGCTGATGAAAGGAGCTGTCCGCGCCCGGGCTCTTCCGAGAAGTGGTTGCTGACAGCCACAAAGTGAAAGGG
AGTGAGGCGGCGTGGACGAGTAAGGAGTGACAGTGAGGATTCACATTTGGGTTATTTCAAGATGAGCTTCCTACT
GCCCAAGCTGACTAGCAAAAAGGAAGTAGACCAGGCGATAAAAAGTACTGCTGAGAAGGTGTTGGTTCTCAGGTT
TGGGAGAGATGAAGATCCTGTCTGTCTGCAGCTAGATGATATTCTTTCTAAGACCTCTTCTGACTTAAGTAAAAT
GGCTGCTATATACCTGGTGGATGTGGACCAAACTGCAGTTTATACACAGTATTTTGACATCAGTTATATTCCATC
TACTGTCTTTTTCTTCAATGGGCAGCATATGAAAGTGGATTATGGATCTCCAGATCACACTAAGTTTGTGGGAAG
CTTCAAAACCAAACAAGACTTCATAGATTTGATTGAAGTAATCTATCGAGGAGCAATGAGGGGGAAGCTTATTGT
CCAAAGTCCTATTGATCCCAAGAATATTCCCAAATATGACCTTCTCTATCAAGACATTTAGTACATTAATTGCTG
TCAAAGATGAAGAAGAAGGCACATCTTGACACAGTACCTGAATCCAGCTGTGCTGTGTTTCTGGAGTCCTTTGGA
AACATGTGTCCCAGAGGAGAAGAGGTTTGACTTGCGTGTAGAAAACCCGGCCCCTGAGGAAAAGACCCCACTGGT
TCTCTGATGACCTGGGATGCCTAACTGTCTACTCCCTGCAAGCCTCAGAGCAGCCAAGTCATTGGTGTTCATTTT
CCCCACAGTGATTTTTGTAACTTCTCTTTCTAATGTTTTTCTTTATCCCTTTAATACAGAACCCTCCCAAACATT
GGCTAGTACAACTTGATTTCATCATGTTCATTTGATACACAAGTGAACTGGAAAGTCACTTCCCATAGAAGCAAA
AGTACTTATTTTCTACCCTAGCTGGGTGCATGTGTGTGCACACACACACACACACACACCCCCACACCCCTTTGC
CGGTTCCTCGACTCATACATCCCTCGTGCTTTCCCATCTCCAGTCTGTATTACTGTAGGTTCTCTTCAAATAATT
AATTGAGCAGACAAGTTTGTTTTATTTTGGAGCCTTTTTGGCTCTGGCTTTTAAACATTGTCCTGGTTGGCTCAT
TTAATTTTTTTTTTTTTTTTGAGACCGAGTCACTCTTGTCACCCAGGCTGGAGTGCAGTGGCGCGATCTCGGCTC
ACTGCAAGCTCCACCTCCTGGGTTCATGCCATTCTCCTGCTTCAGCCTCCTGAGTAGCTGGGACTACAGGCGCCC
GCCACCATGCCCAGCTAATTTTTTGTATTTTTATAGAGGCGCAGTTTCACCGTGTTAGCCAAGATGGTCTCGATC
TCCTGACCTCGTGATCTGCCCTCCTCAGCCTCCCAGGTGCTGGGATTATAGGCGTGAGCCACCGCGCGCACCCCA
TTTAATTATTTTTTATGTTATAAAATTTAATATGGAAAGTGAGAATTTGAACCTTCACCATCCACCACTCTATTC
AGGTAAAACAATGAATGAGCCACCTTAGCAGGAGCAGATTTTTCCCAGAAGCTGCTGCCTCTTCCTGAGGCAGAA
AATTGGATTACTAAGGCTCAAAACTAAAAGAGATGTCAGCATTGTTGGATAGAAATGTCACCTATATGGGATTTG
CCTGTTTTAATAACTTTGTAAGGAATTCTTGCTCTTCTAGGGGTGCCTGGCGCAACCGTGGGCAAGTTACTGCTC
CTCTTTAAACCTCGTGGTGGTTATTGAAACAGATTTATTAGAAGGAGAGGGTAGGTGCAGAGCTGGAGAGCCATG
GGTGAGGCAGCTTGTGACCTGCCTAGCAGCCGCTGACCACCTCTCCAACAGAAGCCTAGTCCTGTTCAGAGCAGC
ACTGTCACTGCAAGTCCAGCCCCCTTTGCCAGGGGCTCCATTCCACCCCTTTCCTGCAGGGAGGGGTGCCATGAG
TCTTGCTTTTGGCTCATACAGGAGAGAGGGAAGGCTGCCAGGCACTGCTTGTATCCCTGCTGATAAGAGGAGGGA
GTCACTCCAGGAATAAGACAAAAGGAGAGGAGGAGGCCATCACCTCTGGCCTCTTCCATCGTACACTTCCTGTCT
CTGGTTTAATCATGATGCATGGAGCTACAACAGCCATCTTAGGTCCCCGAGGTGCCCAGCATCACGTAAAACATC
GATATGCTAAGAAGAACAAAAAGAGCCCAATCTCTGATGTTATTGAGCTCCTGCATGAACTCTGGACCTGCCTGC
CTCAGACTTCTGTGAAAGAATAAAATTTCTTTTTGCCTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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4979/6881
# FIGURE 4595

MSFLLPKLTSKKEVDQAIKSTAEKVLVLRFGRDEDPVCLQLDDILSKTSSDLSKMAAIYLVDVDQTAVYTQYFDI
SYIPSTVFFFNGQHMKVDYGSPDHTKFVGSFKTKQDFIDLIEVIYRGAMRGKLIVQSPIDPKNIPKYDLLYQDI

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## FIGURE 4596

CTCTTCCAGAGGCAAGACCAACCAAGATGAGTGCCCTGGGAGCTGTCATTGCCCTCCTGCTCTGGGGACAGCTTT
TTGCAGTGGACTCAGGCAATGATGTCACGGATATCGCAGATGACGGCTGCCCGAAGCCCCCCGAGATTGCACATG
GCTATGTGGAGCACTCGGTTCGCTACCAGTGTAAGAACTACTACAAACTGCGCACAGAAGGAGATGGAGTATACA
CCTTAAATGATAAGAAGCAGTGGATAAATAAGGCTGTTGGAGATAAACTTCCTGAATGTGAAGCAGATGACGGCT
GCCCGAAGCCCCCCGAGATTGCACATGGCTATGTGGAGCACTCGGTTCGCTACCAGTGTAAGAACTACTACAAAC
TGCGCACAGAAGGAGATGGAGTGTACACCTTAAACAATGAGAAGCAGTGGATAAATAAGGCTGTTGGAGATAAAC
TTCCTGAATGTGAAGCAGTATGTGGGAAGCCCAAGAATCCGGCAAACCCAGTGCAGCGGATCCTGGGTGGACACC
TGGATGCCAAAGGCAGCTTTCCCTGGCAGGCTAAGATGGTTTCCCACCATAATCTCACCACAGGTGCCACGCTGA
TCAATGAACAATGGCTGCTGACCACGGCTAAAAATCTCTTCCTGAACCATTCAGAAAATGCAACAGCGAAAGACA
TTGCCCCTACTTTAACACTCTATGTGGGGAAAAAGCAGCTTGTAGAGATTGAGAAGGTTGTTCTACACCCTAACT
ACTCCCAGGTAGATATTGGGCTCATCAAACTCAAACAGAAGGTGTCTGTTAATGAGAGAGTGATGCCCATCTGCC
TACCTTCAAAGGATTATGCAGAAGTAGGGCGTGTGGGTTATGTTTCTGGCTGGGGGCGAAATGCCAATTTTAAAT
TTACTGACCATCTGAAGTATGTCATGCTGCCTGTGGCTGACCAAGACCAATGCATAAGGCATTATGAAGGCAGCA
CAGTCCCCGAAAAGAAGACACCGAAGAGCCCTGTAGGGGTGCAGCCCATACTGAATGAACACACCTTCTGTGCTG
GCATGTCTAAGTACCAAGAAGACACCTGCTATGGCGATGCGGGCAGTGCCTTTGCCGTTCACGACCTGGAGGAGG
ACACCTGGTATGCGACTGGGATCTTAAGCTTTGATAAGAGCTGTGCTGTGGCTGAGTATGGTGTGTATGTGAAGG
TGACTTCCATCCAGGACTGGGTTCAGAAGACCATAGCTGAGAACTAATGCAAGGCTGGCCGGAAGCCCTTGCCTG
AAAGCAAGATTTCAGCCTGGAAGAGGGCAAAGTGGACGGGAGTGGACAGGAGTGGATGCGATAAGATGTGGTTTG
AAGCTGATGGGTGCCAGCCCTGCATTGCTGAGTCAATCAATAAAGAGCTTTCTTTTGACCCA

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## FIGURE 4597

**ATG**CTGTCTGTGTGTGTCTCCGCGGCCGTAGCCCGTGACCTCACTCGTAAGGAAGGAGGTATAGTGAAGAGGACA
GGAACCATTGTGGACGTTCCAGTCGGTGAGGAGCTGTTGGGTCGTGTAGTTGATGCCCTTGGTAATGCTATTGAT
GGAAAGGGTCCAATGGGTTCCAAGACCCATAAAATCATTCCTCGAACTTCAGTGTGGGAACCAATGCCGACTGGC
ATTAAGGCTGTGGATAGCTTGGTGCCAATTGGTCGTGGTCAGCATGAGCTCATTATTGGTGACCGAAGGACTGGG
AAAACCTCAATTGCTATTGACACAATCATTAACCAGAAACATTTCAATGATAGATCTGAAGAAAAGAAGAAGCTG
TACTGTATCTATGTTGCTATTGGTCGAAAGAGATCCACTGTTGCTCAGTTGGTGAAGAGACTTACAGATGCAGAT
GCCGTGAAGTACACCACTGTGGTGTCAGCTATGGCCTCAGATGCTGCCCTACTTCAGTACCTGGCTCCTTACTCT
GACTGTTCCATGGGAGAGTATTTTAGAGACGATGGCAAATATACTTTGATCATCTATGACGACTTATCCAAACAG
GCTGTCGCTTACTGTCAGATGTCTCTGTTGCTCCACCGACCCCCCTGGTCGACTATGAAGCAGGCGGCAGGTACC
ATGAAGCTGGAATTGGCTCAGGATCGTGAGGTTGCTGCTTTTGCCCAGTTTGGTTCTGACCTCAATGCTCCCACT
CAACAACTATTGAGTCGCGGTGTGCGTCTAACTGAGTTGCTGAAGCAAGGACAGTATCCTCCCATGGTTACTGAA
CAACAAGTGGCTGTTATCTGTGCGGGTGGAGAGAATATAGAGGACATTCCAAAGGAAGTGCTGACAGACTGCGCC
CACCTTGTGAAGGCCAATAGCACTCAAGGCTGCAAGAACAACGTTAATGTGGTAAATACTCCACGGTCTAACCTG
AAGAAACAGCTGACGTGGATGTGAGGCAGATAGGCTTTCACAGGCAGAAGGATGTAAAAATTGTGACAATGGAG
AAGAAAGAGGATTCCTAGCTCATATTTGGAACAAGGAAGTTCAAGATCTCATCCGGGACTATCTGGAAGAAGGA
AAGAAGTGGTGGATTGGGCAAAATGTAATGCCATTGAAAAAGCATCAAGACAACAAATACCCAGCAGACGTTGCA
GCCAACGGGCCCCCAAAGCCCCTCAGCTGCACCTACCTGTCCAGAAACTTCATTCGGATCTCATCCAAAGGGGAC
AAGTGCTTACTGAAATACTATTTCATTTGCCAGACTGGTGACTTTTTGGACGGAGATGCCCATTATGAAAGAAAT
GGAAATAATTCCCATTTGTACCAGAGACACAAGAAGACAAAAAGAGGAGTTGCAATAGCAAGAGACAAAATGCCC
CCAGACTTTCAGGATCATGTGATTCCTGGCCAAGAAATAAAAGCAAATCATTTTATTCCCCAGTGGATTCGGAT
GAAACCGGTGATAAAATCAGGTACAACTCCAAGAGGAGACACTGGAGAACAGGCATGCTGGGTCTG**TAA**

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# FIGURE 4598

MLSVCVSAAVARDLTRKEGGIVKRTGTIVDVPVGEELLGRVVDALGNAIDGKGPMGSKTHKIIPRTSVWEPMPTG
IKAVDSLVPIGRGQHELIIGDRRTGKTSIAIDTIINQKHFNDRSEEKKKLYCIYVAIGRKRSTVAQLVKRLTDAD
AVKYTTVVSAMASDAALLQYLAPYSDCSMGEYFRDDGKYTLIIYDDLSKQAVAYCQMSLLLHRPPWSTMKQAAGT
MKLELAQDREVAAFAQFGSDLNAPTQQLLSRGVRLTELLKQGQYPPMVTEQQVAVICAGGENIEDIPKEVLTDCA
HLVKANSTQGCKNNVNVVNTPRSNLKKTADVDVRQIGFHRQKDVKIVTMEKKRGFLAHIWNKEVQDLIRDYLEEG
KKWWIGQNVMPLKKHQDNKYPADVAANGPPKPLSCTYLSRNFIRISSKGDKCLLKYYFICQTGDFLDGDAHYERN
GNNSHLYQRHKKTKRGVAIARDKMPPDFQDHVIPGQEIKAKSFYSPVDSDETGDKIRYNSKRRHWRTGMLGL

# FIGURE 4599

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CTGTGGCTGGCCTCCCCGCGCCCAGAGCGAAATTAAGGGCATGCCCCCAGCAGCTGACTCAGTCGGCGTGGCGCT
TCCCCCAACGTCTGCCGTGCCCCCGCCGCGGGAAGTAGTCCCCGGCCGCGCCGACTCCAAAGGAAACCGAGGGAG
GGTGCCCCGAGTCAGCGCGTGGGTCCCGGCAGCGGCGATCGCGCAGCCAATCCCTGGAAAGGAGGGCGTGGCTAT
ATCGGCCCCGTGGATCCCTCCGCCCGCGCTTGTTGTGCTGAGGCCGAGGGAGTCGCCATTTTGGATGGTGAACCC
TGAAGTCGGTGTCTGCTGCGTTCACGGCAGGATTCGGTTAGGAGGAACAGCACAGCATGCTGGGCTCTGGATTTA
AAGCTGAGCGCTTAAGAGTGAATTTGAGATTAGTCATAAATCGCCTTAAACTATTGGAGAAAAAGAAAACGGAAC
TGGCCCAGAAAGCAAGGAAGGAGATTGCTGACTATCTGGCTGCTGGGAAAGATGAACGAGCTCGGATCCGTGTGG
AGCACATTATCCGGGAAGACTACCTCGTGGAGGCCATGGAGATCCTGGAGCTGTACTGTGACCTGCTGCTGGCTC
GGTTTGGCCTTATCCAGTCTATGAAGGAACTAGATTCTGGTCTGGCTGAATCTGTGTCTACATTGATCTGGGCTG
CTCCTCGACTCCAGTCAGAAGTGGCTGAGTTGAAAATAGTTGCTGATCAGCTCTGTGCCAAGTATAGCAAGGAAT
ATGGCAAGCTATGTAGGACCAACCAGATTGGAACTGTGAATGACAGGCTAATGCACAAGCTGAGTGTGGAAGCCC
CACCCAAAATCCTGGTGGAGAGATACCTGATTGAAATTGCAAAGAATTACAACGTACCCTATGAACCTGACTCTG
TGGTCATGGCAGAAGCTCCTCCTGGGGTAGAGACAGATCTTATTGATGTTGGATTCACAGATGATGTGAAGAAAG
GAGGCCCTGGAAGAGGAGGGAGTGGTGGCTTCACAGCACCAGTTGGTGGACCTGATGGAACGGTGCCAATGCCCA
TGCCCATGCCCATGCCTATGCCATCTGCAAATACGCCTTTCTCATATCCACTGCCAAAGGGACCAGTAGATGACA
TTAATGCTGATAAGAATATCTCTTCTGCACAGATTGTTGGTCCTGGACCCAAGCCAGAAGCCTCTGCAAAGCTTC
CTTCCAGACCTGCAGATAACTATGACAACTTTGTCCTACCAGAGTTGCCATCTGTGCCAGACACACTACCAACTG
CATCTGCTGGTGCCAGCACCTCAGCATCTGAAGACATTGACTTTGATGATCTTTCCCGGAGGTTTGAAGAGCTGA
AAAAGAAACATAGGTCTCTTAAACCAGGCAACTTTCACGTTTTGGGAGTTGAGACTGAGCAATTTCTCCTTGTA
ACAAAGAATCTCCATGAAATTCTGTTTCATCTGTTAACCGTCACTCAGCACAACACTCCCTCTGGGCTCTCTTCC
TGCTCCTCCAGATTCTGCTGCTTTCCAGTTCTCTGTTGATCCTGAGACTAACAATTGGAGACTGAGGCCAGAGCA
ACTGGCTCCTGGCAGCTGTGCTTGTCCGTTTCCTGTCAGAGTGATCCCAGGTTTCCTCCTGGCCCGTCCCATGGT
CCCTCCACAGGAGTGTGAGAGGATGGGGGAAGCACTGTGGGAAGACCACCAAAGATGGCTGGACAGTGGGAGAGA
GCACGTTGTGAAGCATCCCAGCCTCGTGTTGAGGTTCCAGACTTAGAAACAGACCCCTCTGTACAGGGGGATTGT
GGTGAGTGAGAATCAAGGCCACCTTGTGTGTTTTCTCACTCTCGAATGCAAGTGGGAGAGGGAAAATGACTCGGG
ACGCCATTGTAACGGTTCCTGGAAGCTGGGCCCTCTCATTGGCATATACAGTACTCCTCGCTGCAGGGCACTGTC
CCACCGGGATCCAGTTGCAAAGTTTGTCTTGACAGTTGAAGGCCTCGCTTAGTTGTACTGGATTCTCAGGGAGCC
CTCTGTGGCCTTTTGCTTTGCGTGCTGTTTCCCTTGTACCAGAGGGCGGCACCGTGGAAATTCTGTTTTCCCTGT
AGCATATTGTGTTGGATTGCATTACTGGCAGAGAAAGGACAAGGTGCCATTCAAGTCCTAGGGTGGGCTTCCAGC
TGCCTTAATAGAAGTACTCAAGTCTTTTGGGTAGTGAGCTGGAAAGCCTACAGGAAAAGAGGGGTACCTGTTTTC
ATTTGAAAACTTTGATTCATGGAACCTTTAAAACTAATCTCAGAAAAATTTTTGGTGCCCATGCAGCTGTAGTTG
TTCACTGCTTTCCTGGATGGATGGGACTCTTATGTCATAACTTCTGTTACTCCTTTGGCCCATAGCTAAGGTCAT
CCTTCCCCACAGGGGTGGCTTTGGGATTGGATGATACAGCTTTTGCTTCTGTGTAGTATACCTGTACATACTTGT
TTCAGGCAGCCTTTCTTTAATGTTTTCAGTTGGTTTGTATTCTGTAGCTCAGTAGCTGCTAATAAAGTTAAAGAT
CCTGTG
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# FIGURE 4600A

CGGCGCTGAGTGACCCGAGTCGGGACGCGGGCTGCGCGCGCGGGACCCCGGAGCCCAAACCCGGGGCAGGCGGGC
AGCTGTGCCCGGGCGGCACGGCCAGCTTCCTGATTTCTCCCGATTCCTTCCTTCTCCCTGGAGCGGCCGACA**ATG**


TCCACCACGGTCAATGTAGATTCCCTTGCGGAATATGAGAAGAGCCAGATCAAGAGAGCCCTGGAGCTGGGGACG
GTGATGACTGTGTTCAGCTTCCGCAAGTCCACCCCCGAGCGGAGAACCGTCCAGGTGATCATGGAGACGCGGCAG
GTGGCCTGGAGCAAGACCGCTGACAAGATCGAGGGCTTCTTGGATATCATGGAAATAAAAGAAATCCGCCCAGGG
AAGAACTCCAAAGATTTCGAGCGAGCAAAAGCAGTTCGCCAGAAAGAAGACTGCTGCTTCACCATCCTATATGGC
ACTCAGTTCGTCCTCAGCACGCTCAGCTTGGCAGCTGACTCTAAAGAGGATGCAGTTAACTGGCTCTCTGGCTTG
AAAATCTTACACCAGGAAGCGATGAATGCGTCCACGCCCACCATTATCGAGAGTTGGCTGAGAAAGCAGATATAT
TCTGTGGATCAAACCAGAAGAAACAGCATCAGTCTCCGAGAGTTGAAGACCATCTTGCCCCTGATCAACTTTAAA
GTGAGCAGTGCCAAGTTCCTTAAAGATAAGTTTGTGGAAATAGGAGCACACAAAGATGAGCTCAGCTTTGAACAG
TTCCATCTCTTCTATAAAAAACTTATGTTTGAACAGCAAAAATCGATTCTCGATGAATTCAAAAAGGATTCGTCC
GTGTTCATCCTGGGGAACACTGACAGGCCGGATGCCTCTGCTGTTTACCTGCATGACTTCCAGAGGTTTCTCATA
CATGAACAGCAGGAGCATTGGGCTCAGGATCTGAACAAAGTCCGTGAGCGGATGACAAAGTTCATTGATGACACC
ATGCGTGAAACTGCTGAGCCTTTCTTGTTTGTGGATGAGTTCCTCACGTACCTGTTTTCACGAGAAAACAGCATC
TGGGATGAGAAGTATGACGCGGTGGACATGCAGGACATGAACAACCCCCTGTCTCATTACTGGATCTCCTCGTCA
CATAACACGTACCTTACAGGTGACCAGCTGCGGAGCGAGTCGTCCCCAGAAGCTTACATCCGCTGCCTGCGCATG
GGCTGTCGCTGCATTGAACTGGACTGCTGGGACGGGCCCGATGGGAAGCCGGTCATCTACCATGGCTGGACGCGG
ACTACCAAGATCAAGTTTGACGACGTCGTGCAGGCCATCAAAGACCACGCCTTTGTTACCTCGAGCTTCCCAGTG
ATCCTGTCCATCGAGGAGCACTGCAGCGTGGAGCAACAGCGTCACATGGCCAAGGCCTTCAAGGAAGTATTTGGC
GACCTGCTGTTGACGAAGCCCACGGAGGCCAGTGCTGACCAGCTGCCCTCGCCCAGCCAGCTGCGGGAGAAGATC
ATCATCAAGCATAAGAAGCTGGGCCCCCGAGGCGATGTGGATGTCAACATGGAGGACAAGAAGGACGAACACAAG
CAACAGGGGGAGCTGTACATGTGGGATTCCATTGACCAGAAATGGACTCGGCACTACTGCGCCATTGCCGATGCC
AAGCTGTCCTTCAGTGATGACATTGAACAGACTATGGAGGAGGAAGTGCCCCAGGATATACCCCCTACAGAACTA
CATTTTGGGGAGAAATGGTTCCACAAGAAGGTGGAGAAGAGGACGAGTGCCGAGAAGTTGCTGCAGGAATACTGC
ATGGAGACGGGGGGCAAGGATGGCACCTTCCTGGTTCGGGAGAGCGAGACCTTCCCCAATGACTACACCCTGTCC
TTCTGGCGGTCAGGCCGGGTCCAGCACTGCCGGATCCGCTCCACCATGGAGGGCGGGACCCTGAAATACTACTTG
ACTGACAACCTCACCTTCAGCAGCATCTATGCCCTCATCCAGCACTACCGCGAGACGCACCTGCGCTGCGCCGAG
TTCGAGCTGCGGCTCACGGACCCTGTGCCCAACCCCAACCCCCACGAGTCCAAGCCGTGGTACTATGACAGCCTG
AGCCGCGGAGAGGCAGAGGACATGCTGATGAGGATTCCCCGGGACGGGGCCTTCCTGATCCGGAAGCGAGAGGGG
AGCGACTCCTATGCCATCACCTTCAGGGCTAGGGGCAAGGTAAAGCATTGTCGCATCAACCGGGACGGCCGGCAC
TTTGTGCTGGGGGACCTCCGCCTATTTTGAGAGTCTGGTGGAGCTCGTCAGTTACTACGAGAAGCATTCACTCTAC
CGAAAGATGAGACTGCGCTACCCCGTGACCCCCGAGCTCCTGGAGCGCTACAATATGGAAAGAGATATAAACTCC
CTCTACGACGTCAGCAGAATGTATGTGGATCCCAGTGAAATCAATCCGTCCATGCCTCAGAGAACCGTGAAAGCT
CTGTATGACTACAAAGCCAAGCGAAGCGATGAGCTGAGCTTCTGCCGTGGTGCCCTCATCCACAATGTCTCCAAG
GAGCCCGGGGGCTGGTGGAAAGGAGACTATGGAACCAGGATCCAGCAGTACTTCCCATCCAACTACGTCGAGGAC
ATCTCAACTGCAGACTTCGAGGAGCTAGAAAAGCAGATTATTGAAGACAATCCCTTAGGGTCTCTTTGCAGAGGA
ATATTGGACCTCAATACCTATAACGTCGTGAAAGCCCCTCAGGGAAAAAAACCAGAAGTCCTTTGTCTTCATCCTG
GAGCCCAAGCAGCAGGGCGATCCTCCGGTGGAGTTTGCCACAGACAGGGTGGAGGAGCTCTTTGAGTGGTTTCAG
AGCATCCGAGAGATCACCTGGAAGATTGACACCAAGGAGAACAACATGAAGTACTGGGAGAAGAACCAGTCCATC
GCCATCGAGCTCTCTGACCTGGTTGTCTACTGCAAACCAACCAGCAAAACCAAGGACAACTTAGAAAATCCTGAC
TTCCGAGAAATCCGCTCCTTTGTGGAGACGAAGGCTGACAGCATCATCAGACAGAAGCCCGTCGACCTCCTGAAG
TACAATCAAAAGGGCCTGACCCGCGTCTACCCAAAGGGACAAAGAGTTGACTCTTCAAACTACGACCCCTTCCGC
CTCTGGCTGTGCGGTTCTCAGATGGTGGCACTCAATTTCCAGACGGCAGATAAGTACATGCAGATGAATCACGCA
TTGTTTTCTCTCAATGGGCGCACGGGCTACGTTCTGCAGCCTGAGAGCATGAGGACAGAGAAATATGACCCGATG
CCACCCGAGTCCCAGAGGAAGATCCTGATGACGCTGACAGTCAAGGTTCTCGGTGCTCGCCATCTCCCCAAACTT
GGACGAAGTATTGCCTGTCCCTTTGTAGAAGTGGAGATCTGTGGAGCCGAGTATGACAACAACAAGTTCAAGACG
ACGGTTGTGAATGATAATGGCCTCAGCCCTATCTGGGCTCCAACACAGGAGAAGGTGACATTTGAAATTTATGAC
CCAAACCTGGCATTTCTGCGCTTTGTGGTTTATGAAGAAGATATGTTCAGCGATCCCAACTTTCTTGCTCATGCC

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# FIGURE 4600B

ACTTACCCCATTAAAGCAGTCAAATCAGGATTCAGGTCCGTTCCTCTGAAGAATGGGTACAGCGAGGACATAGAG
CTGGCTTCCCTCCTGGTTTTCTGTGAGATGCGGCCAGTCCTGGAGAGCGAAGAGGAACTTTACTCCTCCTGTCGC
CAGCTGAGGAGGCGGCAAGAAGAACTGAACAACCAGCTCTTTCTGTATGACACACACCAGAACTTGCGCAATGCC
AACCGGGATGCCCTGGTTAAAGAGTTCAGTGTTAATGAGAACCAGCTCCAGCTGTACCAGGAGAAATGCAACAAG
AGGTTAAGAGAGAAGAGAGTCAGCAACAGCAAGTTTTACTCA**TAG**AAGCTGGGGTATGTGTGTAAGGGTATTGTG
TGTGTGCGCATGTGTGTTTGCATGTAGGAGAACGTGCCCTATTCACACTCTGGGAAGACGCTAATCTGTGACATC
TTTCTTCAAGCCTGCCATCAAGGACATTTCTTAAGACCCAACTGGCATGAGTTGGGGTAATTTCCTATTATTTT
CATCTTGGACAACTTTCTTAACTTATATTCTTTATAGAGGATTCCCCAAAATGTGCTCCTCATTTTTGGCCTCTC
ATGTTCCAAACCTCATTGAATAAAAGCAATGAAAACCTTG

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# FIGURE 4601

MSTTVNVDSLAEYEKSQIKRALELGTVMTVFSFRKSTPERRTVQVIMETRQVAWSKTADKIEGFLDIMEIKEIRP
GKNSKDFERAKAVRQKEDCCFTILYGTQFVLSTLSLAADSKEDAVNWLSGLKILHQEAMNASTPTIIESWLRKQI
YSVDQTRRNSISLRELKTILPLINFKVSSAKFLKDKFVEIGAHKDELSFEQFHLFYKKLMFEQQKSILDEFKKDS
SVFILGNTDRPDASAVYLHDFQRFLIHEQQEHWAQDLNKVRERMTKFIDDTMRETAEPFLFVDEFLTYLFSRENS
IWDEKYDAVDMQDMNNPLSHYWISSSHNTYLTGDQLRSESSPEAYIRCLRMGCRCIELDCWDGPDGKPVIYHGWT
RTTKIKFDDVVQAIKDHAFVTSSFPVILSIEEHCSVEQQRHMAKAFKEVFGDLLLTKPTEASADQLPSPSQLREK
IIIKHKKLGPRGDVDVNMEDKKDEHKQQGELYMWDSIDQKWTRHYCAIADAKLSFSDDIEQTMEEEVPQDIPPTE
LHF.GEKWFHKKVEKRTSAEKLLQEYCMETGGKDGTFLVRESETFPNDYTLSFWRSGRVQHCRIRSTMEGGTLKYY
LTDNLTFSSIYALIQHYRETHLRCAEFELRLTDPVPNPNPHESKPWYYDSLSRGEAEDMLMRIPRDGAFLIRKRE
GSDSYAITFRARGKVKHCRINRDGRHFVLGTSAYFESLVELVSYYEKHSLYRKMRLRYPVTPELLERYNMERDIN
SLYDVSRMYVDPSEINPSMPQRTVKALYDYKAKRSDELSFCRGALIHNVSKEPGGWWKGDYGTRIQQYFPSNYVE
DISTADFEELEKQIIEDNPLGSLCRGILDLNTYNVVKAPQGKNQKSFVFILEPKQQGDPPVEFATDRVEELFEWF
QSIREITWKIDTKENNMKYWEKNQSIAIELSDLVVYCKPTSKTKDNLENPDFREIRSFVETKADSIIRQKPVDLL
KYNQKGLTRVYPKGQRVDSSNYDPFRLWLCGSQMVALNFQTADKYMQMNHALFSLNGRTGYVLQPESMRTEKYDP
MPPESQRKILMTLTVKVLGARHLPKLGRSIACPFVEVEICGAEYDNNKFKTTVVNDNGLSPIWAPTQEKVTFEIY
DPNLAFLRFVVYEEDMFSDPNFLAHATYPIKAVKSGFRSVPLKNGYSEDIELASLLVFCEMRPVLESEEELYSSC
RQLRRRQEELNNQLFLYDTHQNLRNANRDALVKEFSVNENQLQLYQEKCNKRLREKRVSNSKFYS

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# FIGURE 4602

GGGCGGGCCCGCACCCCTGCGAAC<u>ATG</u>GCGCTGCGAGTGGTGCGGAGCGTGCGGGCCCTGCTCTGCACCCTGCGC
GCGGTCCCGTTACCCGCCGCGCCCTGCCCGCCGAGGCCCTGGCAGCTGGGGGTGGGCGCCGTCCGTACGCTGCGC
ACTGGACCCGCTCTGCTCTCGGTGCGTAAATTCACAGAGAAACACGAATGGGTAACAACAGAAAATGGCATTGGA
ACAGTGGGAATCAGCAATTTTGCACAGGAAGCGTTGGGAGATGTTGTTTATTGTAGTCTCCCTGAAGTTGGGACA
AAATTGAACAAACAAGATGAGTTTGGTGCTTTGGAAAGTGTGAAAGCTGCTAGTGAACTCTATTCTCCTTTATCA
GGAGAAGTAACTGAAATTAATGAAGCTCTTGCAGAAAATCCAGGACTTGTAAACAAATCTTGTTATGAAGATGGT
TGGCTGATCAAGATGACACTGAGTAACCCTTCAGAACTAGATGAACTTATGAGTGAAGAAGCATATGAGAAATAC
ATAAAATCTATTGAGGAG<u>TGA</u>AAATGGAACTCCTAAATAAACTAGTATGAAATAACGCAAGCCAGCAGAGTTGTC
TTAAATTAGTGGTGGATAGAAGACTTAGAATAGAAACTTTTAGTATTACCGATGGGGAAAAAAAAACTACTGTTA
ACACTGCTAATGAAAGAAAATGCCCTTTAACTTTCTAATGATTATAGATAAATATAATATGCGTCTTTTTCACAA
TATCCTATGATTTTTAGACTAGGCTCTAGTGTTCAGAATTCATGAAATTATCCATGGTAAAAACTAGTTATAAAA
ATTACATAATTCAAAGATAACATTGTTATTCTTAAGCCTTATATAATATTGTAACTTGCATGTATCCATACCTGG
ATTTGGGATGAAATACTTAATGATCTTTCCATTGGAAATAACTGGAGTGAAGAGGTTTTGTTGCTTGTACAGTG
TCAGATGAGGAACACCACTATCTTAATTTTGCGATACACTGCATTTGCTGGTGCTATTTTTATACAGTGAAGCAA
CAGCTTTGCAGCAAAATAATAAAATACTTCTTCGTT

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## FIGURE 4603

MALRVVRSVRALLCTLRAVPLPAAPCPPRPWQLGVGAVRTLRTGPALLSVRKFTEKHEWVTTENGIGTVGISNFA
QEALGDVVYCSLPEVGTKLNKQDEFGALESVKAASELYSPLSGEVTEINEALAENPGLVNKSCYEDGWLIKMTLS
NPSELDELMSEEAYEKYIKSIEE

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## FIGURE 4604

ACGGTGGAGCGGTGGAGGGCGTCACTGGGTTTCGGCGTCTGGCAAGCGGTTCAGCTGTCTGCTCCCTAGCAGCCG
GCCTTCGGGTCGGGCGTCTCCGCGGCTACTGCCGCTTCAGTTCTCCCGGTGTGGCCACGAGTCGGGTTGCACTGC
TGTGATCCATCCTCATCTCCTAAAG**ATG**CATCCTGACTTATCTCCACACTTGCACACTGAAGAATGCAACGTCTT
GATTAACTTGCTTAAGGAATGTCACAAAAATCACAACATTCTGAAATTTTTTGGTTATTGTAATGATGTTGATCG
GGAGTTGAGAAAATGCCTGAAGAATGAGTACGTAGAAAACAGGACCAAGAGCAGGGAGCATGGCATTGCAATGCG
AAAGAAACTTTTTAATCCTCCAGAGGAATCCGAAAAA**TAA**ATTGTATTTTCACTCGATGCCTTGGCTGAGAGAAG
ACCTAAAGACTCTGGGTTGATACCTGAAAGAATCCTGTCTTATTTGGTCTCCATAATCCTTTGAATGGAAAGTGA
CCTGTGAGAGATTGAACCATGGAGAAATATGAAAACCCTGGATTCTGAGTATTTGTTGGGCAGGGCGTTTAGTAC
TGTCTCCCCTTTACCAGCAAACCTGACTTCACCATGTTTATTCCCTTTGCCTACAACCAGTTAATATCTGAGTAA
CTTATCTCCTTCAATAAAATAATTTAAATAAAAAAAAAAAA

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## FIGURE 4605

MHPDLSPHLHTEECNVLINLLKECHKNHNILKFFGYCNDVDRELRKCLKNEYVENRTKSREHGIAMRKKLFNPPE
ESEK

4991/6881
## FIGURE 4606

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GCGCAGGCGCGGCGGCCGATGCGAGTGTGTATGTGCGGGCGAGAAGATGGCGGCGGCGGGGGGAAGCAGCGTGAGC
AGCCGGAGGATCGCGGAGTCCCAATGAAACGGGCAGCCATGGCCCTCCACAGCCCGCAGTATATTTTTGGAGATT
TTAGCCCTGATGAATTCAATCAATTCTTTGTGACTCCTCGATCTTCAGTTGAGCTTCCTCCATACAGTGGAACAG
TTCTGTGTGGCACACAGGCTGTGGATAAACTACCTGATGGACAAGAATATCAGAGAATTGAGTTTGGTGTCGATG
AAGTCATTGAACCCAGTGACACTTTGCCGAGAACCCCCAGCTACAGTATTTCAAGCACACTGAACCCTCAGGCCC
CTGAATTTATTCTCGGTTGTACAGCTTCCAAAATAACCCCTGATGGTATCACTAAAGAAGCAAGCTATGGCTCCA
TCGACTGCCAGTACCCAGGCTCTGCCCTCGCTTTGGATGGAAGTTCTAATGTGGAGGCGGAAGTTTTGGAAAATG
ATGGTGTCTCAGGTGGTCTTGGACAAAGGGAGCGTAAAAAGAAGAAAAAGCGGCCACCTGGATATTACAGCTATT
TGAAAGATGGTGGCGATGATAGTATCTCCACAGAAGCCCTGGTCAATGGCCATGCCAATTCAGCAGTCCCGAACA
GTGTCAGTGCAGAGGATGCAGAATTTATGGGTGACATGCCCCCGTCAGTTACGCCCAGGACTTGTAACAGCCCCC
AGAACTCCACAGACTCTGTCAGTGACATTGTGCCTGACAGTCCTTTCCCCGGAGCACTCGGCAGTGACACCAGGA
CTGCAGGGCAGCCAGAGGGGGGCCCCGGGGCTGATTTTGGTCAGTCCTGCTTCCCTGCAGAGGCTGGCAGAGACA
CCCTGTCAAGGACAGCTGGGGCTCAGCCCTGCGTTGGTACCGATACTACTGAAAACCTTGGAGTTGCTAATGGAC
AAATACTTGAATCCTCGGGTGAGGGCACAGCTACCAACGGGGTGGAGTTGCACACCACGGAAAGCATAGACTTGG
ACCCAACCAAACCCGAGAGTGCATCACCTCCTGCTGACGGCACGGGCTCTGCATCAGGCACCCTTCCTGTCAGCC
AGCCCAAGTCCTGGGCCAGCCTCTTTCATGATTCTAAGCCCTCTTCCTCCTCGCCGGTGGCCTATGTGGAAACTA
AGTATTCCCCTCCCGCCATATCTCCCCTGGTTTCTGAAAAGCAGGTTGAAGTCAAAGAAGGGCTTGTTCCGGTTT
CAGAGGATCCTGTAGCCATAAAGATTGCAGAGTTGCTGGAGAATGTAACCCTAATCCATAAACCAGTGTCGTTGC
AACCCCGTGGGCTGATCAATAAAGGGAACTGGTGCTACATTAATGCTACACTGCAGGCATTGGTTGCTTGCCCGC
CGATGTACCACCTGATGAAGTTCATTCCTCTGTATTCCAAAGTGCAAAGGCCTTGTACGTCAACACCCATGATAG
ACAGCTTTGTTCGGCTAATGAATGAGTTCACTAATATGCCAGTACCTCCAAAACCCCGACAAGCTCTTGGAGATA
AAATCGTGAGGGATATTCGCCCTGGAGCTGCCTTTGAGCCCACATATATTTACAGACTCCTGACAGTTAACAAGT
CAAGCCTGTCTGAAAAGGGTCGACAAGAAGATGCTGAGGAATACTTAGGCTTCATTCTAAATGGACTTCATGAGG
AAATGTTGAACCTAAAGAAGCTTCTCTCACCAAGTAATGAAAAACTTACGATTTCCAACGGCCCCAAAAACCACT
CGGTCAATGAAGAAGAGCAGGAAGAACAAGGTGAAGGAAGCGAGGATGAATGGGAACAAGTGGGCCCCCGGAACA
AGACTTCCGTCACCCGCCAGGCGGATTTTGTTCAGACTCCAATCACCGGCATTTTTGGTGGACACATCAGGTCTG
TGGTTTACCAGCAGAGTTCAAAAGAATCTGCCACTTTGCAGCCATTTTTCACGTTGCAGTTGGATATCCAGTCAG
ACAAGATACGCACAGTCCAGGATGCACTGGAGAGCTTGGTGGCAAGAGAATCTGTCCAAGGTTATACCACAAAAA
CCAAACAAGAGGTTGAGATAAGTCGAAGAGTGACTCTGGAAAAACTCCCTCCTGTCCTCGTGCTGCACCTGAAAC
GATTCGTTTATGAGAAGACTGGTGGGTGCCAGAAGCTTATCAAAAATATTGAATATCCTGTGGACTTGGAAATTA
GTAAAGAACTGCTTTCTCCAGGGGTTAAAAATAAGAATTTTAAATGCCACCGAACCTATCGGCTGTTTGCAGTGG
TCTACCATCACGGCAACAGTGCGACGGGCGGCCATTACACTACAGACGTCTTCCAGATCGGTCTGAATGGCTGGC
TGCGCATCGATGACCAGACAGTCAAGGTGATCAACCAGTACCAGGTGGTGAAACCAACTGCTGAACGCACAGCCT
ACCTCCTGTATTACCGCCGAGTGGACCTGCTGTAAACCCTGTGTGCGCTGTGTGTGCGCCCAGTGCCCGCTTCGT
AGGACACCACCTCACACTCACTTCCCGCCTCTCTTTAGTGGCTCTTTAGAGAGAAACTCTTTCTCCCTTTGCAAA
AATGGGCTAGAATGAAAAGGAGATGCCTTGGGGTTCGTGCACAACACAGCTTCTGTTGACTCTAACTTCCAAATC
AAAATCATTTGGTTGAAACAGACTGTTGCTTGATTTTAGAAAATACACAAAAACCCATATTTCTGAAATAATGCT
GATTCCTGAGATAAGAAAGTGGATTTGATCCCCAGTCTCATTGCTTAGTAGAATAAATCCTGCACCAGCAACAAC
ACTTGTAAATTTGTGAAAATGAATTTTATCTTTCCTTAAAAAAGAAATTTTTTAATCCATCACACTTTTCTTCCC
TACCCTTTAGTTTTTGATAAATGATAAAAATGAGCCAGTTATCAAAGAAGAACTAGTTCTTACTTCAAAAGAAAA
ATAAACATAAAAAATAAGTTGCTGGTTCCTAACAGGAAAAATTTTAATAATTGTACTGAGAGAAACTGCTTACGT
ACACATTGCAGATCAAATATTTGGAGTTAAAATGTTAGTCTACATAGATGGGTGATTGTAACTTTATTGCCATTA
AAAGATTTCAAATTGCATTCATGCTTCTGTGTACACATAATGAAAAATGGGCAAATAATGAAGATCTCTCCTTCA
GTCTGCTCTGTTTAATTCTGCTGTCTGCTCTTCTCTAATGCTGCGTCCCTAATTGTACACAGTTTAGTGATATCT
AGGAGTATAAAGTTGTCGCCCATCAATAAAAATCACAAAGTTGGTTT
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**FIGURE 4607**

MALHSPQYIFGDFSPDEFNQFFVTPRSSVELPPYSGTVLCGTQAVDKLPDGQEYQRIEFGVDEVIEPSDTLPRTP
SYSISSTLNPQAPEFILGCTASKITPDGITKEASYGSIDCQYPGSALALDGSSNVEAEVLENDGVSGGLGQRERK
KKKKRPPGYYSYLKDGGDDSISTEALVNGHANSAVPNSVSAEDAEFMGDMPPSVTPRTCNSPQNSTDSVSDIVPD
SPFPGALGSDTRTAGQPEGGPGADFGQSCFPAEAGRDTLSRTAGAQPCVGTDTTENLGVANGQILESSGEGTATN
GVELHTTESIDLDPTKPESASPPADGTGSASGTLPVSQPKSWASLFHDSKPSSSSPVAYVETKYSPPAISPLVSE
KQVEVKEGLVPVSEDPVAIKIAELLENVTLIHKPVSLQPRGLINKGNWCYINATLQALVACPPMYHLMKFIPLYS
KVQRPCTSTPMIDSFVRLMNEFTNMPVPPKPRQALGDKIVRDIRPGAAFEPTYIYRLLTVNKSSLSEKGRQEDAE
EYLGFILNGLHEEMLNLKKLLSPSNEKLTISNGPKNHSVNEEEQEEQGEGSEDEWEQVGPRNKTSVTRQADFVQT
PITGIFGGHIRSVVYQQSSKESATLQPFFTLQLDIQSDKIRTVQDALESLVARESVQGYTTKTKQEVEISRRVTL
EKLPPVLVLHLKRFVYEKTGGCQKLIKNIEYPVDLEISKELLSPGVKNKNFKCHRTYRLFAVVYHHGNSATGGHY
TTDVFQIGLNGWLRIDDQTVKVINQYQVVKPTAERTAYLLYYRRVDLL

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# FIGURE 4608

GGAAGCCGACGCCGCGCTCGCATGCTCGCAGGCGCCGCGTAGCCGTCGCCACCGCCGCCAGCCCGTGCGCCCTCG
GCGCGTACCCGCCGCGCTCCCATCCCCGCCGCCGGCCAGGGGCGCGCTCGGCCGCCCCGGACAGTGTCCCGCTGC
GGCTCCGCGGCGATGGCCACCAAGATCGACAAAGAGGCTTGCCGGGCGGCGTACAACCTGGTGCGCGACGACGGC
TCGGCCGTCATCTGGGTGACTTTTAAATATGACGGCTCCACCATCGTCCCCGGCGAGCAGGGAGCGGAGTACCAG
CACTTCATCCAGCAGTGCACAGATGACGTCCGGTTGTTTGCCTTCGTGCGCTTCACCACCGGGGATGCCATGAGC
AAGAGGTCCAAGTTTGCCCTCATCACGTGGATCGGTGAGAACGTCAGCGGGCTGCAGCGCGCCAAAACCGGGACG
GACAAGACCCTGGTGAAGGAGGTCGTACAGAATTTCGCTAAGGAGTTTGTGATCAGTGATCGGAAGGAGCTGGAG
GAAGATTTCATCAAGAGCGAGCTGAAGAAGGCGGGGGGAGCCAATTACGACGCCCAGACGGAGTAACCCCAGCCC
CCGCCACACCACCCCTTGCCAAAGTCATCTGCCTGCTCCCCGGGGGAGAGGACCGCCGGCCTCAGCTACTAGCCC
ACCAGCCCACCAGGGAGAAAAGAAGCCATGAGAGGCAGCGCCCGCCACCCTGTGTCCACAGCCCCCACCTTCCCG
CTTCCCTTAGAACCCTGCCGTGTCCTATCTCATGACGCTCATGGAACCTCTTTCTTTGATCTTCTTTTTCTTTTC
TCCCCCTCTTTTTTGTTCTAAAGAAAAGTCATTTTGATGCAAGGTCCTGCCTGCCATCAGATCCGAGGTGCCTCC
TGCAGTGACCCCTTTTCCTGGCATTTCTCTTCCACGCGACGAGGTCTGCCTAGTGAGATCTGCATGACCTCACGT
TGCTTTCCAGAGCCCGGGCCTATTTTGCCATCTCAGTTTTCCTGGACCCTGCTTCCTGTGTACCACTGAGGGGCA
GCTGGGCCAGGAGCTGTGCCCGGTGCCTGCAGCCTTCATAAGCACACACGTCCATTCCCTACTAAGGCCCAGACC
TCCTGGTATCTGCCCCGGGCTCCCTCATCCCACCTCCATCCGGAGTTGCCTAAGATGCATGTCCAGCATAGGCAG
GATTGCTCGGTGGTGAGAAGGTTAGGTCCGGCTCAGACTGAATAAGAAGAGATAAAATTTGCCTTAAAACTTACC
TGGCAGTGGCTTTGCTGCACGGTCTGAAACCACCTGTTCCCACCCTCTTGACCGAAATTTCCTTGTGACACAGAG
AAGGGCAAAGGTCTGAGCCCAGAGTTGACGGAGGGAGTATTTCAGGGTTCACTTCAGGGGCTCCCAAAGCGACAA
GATCGTTAGGGAGAGAGGCCCAGGGTGGGGACTGGGAATTTAAGGAGAGCTGGGAACGGATCCCTTAGGTTCAGG
AAGCTTCTGTGTAAGCTGCGAGGATGGCTTGGGCCGAAGGGTTGCTCTGCCCGCCGCGCTAGCTGTGAGCTGAGC
AAAGCCCTGGGCTCACAGCACCCCAAAAGCCTGTGGCTTCAGTCCTGCGTCTGCACCACACATTCAAAAGGATCG
TTTTGTTTTGTTTTTAAAGAAAGGTGAGATTGGCTTGGTTCTTCATGAGCACATTTGATATAGCTCTTTTTCTGT
TTTTCCTTGCTCATTTCGTTTTGGGGAAGAAATCTGTACTGTATTGGGATTGTAAAGAACATCTCTGCACTCAGA
CAGTTTACAGAAATAAATGTTTTTTTTGTTTTTCAG

# FIGURE 4609

MATKIDKEACRAAYNLVRDDGSAVIWVTFKYDGSTIVPGEQGAEYQHFIQQCTDDVRLFAFVRFTTGDAMSKRSK
FALITWIGENVSGLQRAKTGTDKTLVKEVVQNFAKEFVISDRKELEEDFIKSELKKAGGANYDAQTE

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# FIGURE 4610

GCGGCCGGCGGCGTCTCCTCCCGGGACGCTGAGGGGCCCGAGGAGACCGTGAGGCTCTGGCCTGCAGCTCGCGCC
GCC**ATG**GACGCTGCCGAGGTCGAATTCCTCGCCGAGAAGGAGCTGGTTACCATTATCCCCAACTTCAGTCTGGAC
AAGATCTACCTCATCGGGGGGGGACCTGGGGCCTTTTAACCCTGGTTTACCCGTGGAAGTGCCCCTGTGGCTGGCG
ATTAACCTGAAACAAAGACAGAAATGTCGCCTGCTCCCTCCAGAGTGGATGGATGTAGAAAAGTTGGAGAAGATG
.AGGGATCATGAACGAAAGGAAGAAACTTTTACCCCAATGCCCAGCCCTTACTACATGGAACTTACGAAGCTCCTG
TTAAATCATGCTTCAGACAACATCCCGAAGGCAGACGAAATCCGGACCCTGGTCAAGGATATGTGGGACACTCGT
ATAGCCAAACTCCGAGTGTCTGCTGACAGCTTTGTGAGACAGCAGGAGGCACATGCCAAGCTGGATAACTTGACC
TTGATGGAGATCAACACCAGCGGGACTTTCCTCACACAAGCGCTCAACCACATGTACAAACTCCGCACGAACCTC
CAGCCTCTGGAGAGTACTCAGTCTCAGGACTTC**TAG**AGAAAGGCCTGGTGCAGGCGGCTTGCTGGGGGATGTGAG
CGCTCAGGATGTGATGAGGTACTCGTGGTTCTGGAGCTCTAGAAACACTTCTGATGCATGAAAAATGTGTGATGG
TGCAAGGAATGGATTCAGGATGTTGTTGGAGAAACAAGTTTGTGATTAGTCCTTAAAACTTAGCTCCCTGGGACA
TTCTTCAATTCCACATCTGTTTCTAGAAACCAGCCCTTTTTCCCCCCACTTTTGAGAAATAAAAAAGCCTTAGGT
AAATAAGTCATTCTCCCTAGCAGAGCCACTTGGGTCTCCTGCATGGAAGCCGTCACACTTGGGCAGGTGTTCAGT
GACTGGTAGGTGTAGATACAGCAGGAGTGGCCATGTGGTCCACGGCTTTTTACCCCTTCTTGATCCTGATTTCTT
GGGCTGAATTTAGACTCTCTCACAGAGGTGGCTCACAGAGAAGGATGGCAGATGGTGCAGCCAACAATGCTGACC
GGTGCTTATCCTCTAAGCCCTGATCCACAATAAAAATGGACCCAACTCAAAAAAAAA

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## FIGURE 4611

MDAAEVEFLAEKELVTIIPNFSLDKIYLIGGDLGPFNPGLPVEVPLWLAINLKQRQKCRLLPPEWMDVEKLEKMR
DHERKEETFTPMPSPYYMELTKLLLNHASDNIPKADEIRTLVKDMWDTRIAKLRVSADSFVRQQEAHAKLDNLTL
MEINTSGTFLTQALNHMYKLRTNLQPLESTQSQDF

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# FIGURE 4612

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GGCACGAGGCTTCCCAGAGGCGCGAGTCGCTTTTCCAGGAGCCGAGGCCCAAACGGGGCCGGGCCTGAAGGGTCC
CCCGCCAGCCCGCGGCCGCGCCATCAATCGCCGCCGCCTCGTCCCGCTTCTCGGCTGAGGCGCCGCGCGGCCAGG
CAGCGGGTCCAGGCCTCAGCCGCGCGCCCAGGGGCCTCCGGGGCCCTCCCGGGTCAGCATGCCCGGGGTGAAACT
GACCACCCAGGCCTACTGCAAGATGGTGCTGCACGGCGCCAAGTACCCGCACTGCGCCGTCAACGGGCTCCTGGT
GGCCGAGAAGCAGAAGCCGCGTAAGGAGCACCTCCCCCTGGGCGGCCCCGGCGCCCACCACACCCTCTTCGTGGA
CTGCATCCCCCTCTTCCACGGCACCCTGGCCCTCGCCCCCATGCTGGAGGTGGCTCTCACCCTGATTGATTCATG
GTGCAAAGATCATAGCTACGTGATTGCTGGTTATTATCAAGCTAATGAGCGAGTAAAGGATGCCAGTCCAAACCA
GGTTGCAGAGAAGGTGGCCTCCAGAATCGCCGAGGGCTTCAGCGACACTGCGCTCATCATGGTAGACAACACCAA
GTTTACGATGGACTGCGTAGCGCCTACGATCCACGTGTACGAGCACCATGAGAACAGATGGCGGTGCAGAGACCC
ACACCATGACTACTGTGAAGACTGGCCAGAGGCACAGAGGATCTCAGCCTCGCTCCTGGACAGCCGGTCCTACGA
GACGCTCGTGGATTTCGATAACCACCTGGATGACATTCGGAATGACTGGACAAACCCAGAGATCAATAAAGCTGT
CCTACACTTGTGCTAGGCAGGCACCGCTGTGACTGGGCTCCGGGCCTTTCCACTACGTTGAAGAAGAAAACCTAT
TTTTAAATGTAAATAAAATATCTGGTAGCCTGTGTGGAAAGCTGACCGTTTTAAGAAGTGGCATGTGCCTTGAAA
GGGGGCAGAATGTTCAGTCGGTCGTGTTTTTAACACAGAGTCTCTAGAAGAGGTGCAGACATCCCGTCTGACTGT
CCCTGTGGACTCTCTCAGTTGTATGTTGCTATAATCCTCCAAATCAAAGCTCTTTCTGCTTGTCAAGATTGTTC
CTATTAAACAGTTTTAACTAACCTTTTATAATCTGGAGAGAATACTTTTTAAGGCTTTTGAACTATCTTTTTTTA
AAAAAAAAAAAAAGCCCACATCTTATACTCCAATGAGTGTGTTTGTGAGTTTTTATCCTGTTTGAATTTTGATGT
CGTCCAGGCGTCCTGGGATCAGGGTAGACACGTGGAGTGCTGGTGCTGAGCTGTTTGAGAAGCTCTGTGTGGGTG
TTTCTGTGGTCAGGTAGGCTGGGCTGTGAACAGCACTGCTCCACATGGTGTCGGCTCACAGAGCCACCGCAACTC
TGCCCAGCGGGAGTGACACCACTGATGCCACAGAAGCCTTTATCGTTAGGGGCAAAAGCAGACATCTCTGGTAGC
AGGAGCTCAGTGTGGTGCTCTTCAGCCACGCAGAAAGCTCACGTGCCTGCAGGGCCAGGAAAGGGAAATGATCGT
TTCTTTTGTATTAGGAAAAACAAGACTTAGACTTCCCGAGTTGTGCAGAGTGACGTCTGTACTTTTTATACTTAG
AACATTGGTCAAGTTTTGTAACCAAACCTTAGGGAATTGAGAGGGAAACTTTATGGTACGTTTACCTTTTTTCC
TTTTTATATGAATTATTTTGTACAAAGTTCAGAGAGCGGTACCTTTCCTACTGTCTTTTCTTTGACTCCATGGAG
GAATTTGTAACGATCGGTGTGACCTGAAAGGGTTTGTGATACAGCGGTCACTATTTTCTCTTAACACATAGGAAA
AAAGTTCAGACATCGCTACAATAAATGTGCTTTATTTGATCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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## FIGURE 4613

MPGVKLTTQAYCKMVLHGAKYPHCAVNGLLVAEKQKPRKEHLPLGGPGAHHTLFVDCIPLFHGTLALAPMLEVAL
TLIDSWCKDHSYVIAGYYQANERVKDASPNQVAEKVASRIAEGFSDTALIMVDNTKFTMDCVAPTIHVYEHHENR
WRCRDPHHDYCEDWPEAQRISASLLDSRSYETLVDFDNHLDDIRNDWTNPEINKAVLHLC

# FIGURE 4614

CGACGTTCGCAGCGCTACCCTTTTCCGCTCCACGGTGACCTCCGTGCGGCCGGGTGCGGGCGGAGTCTTCCTCGA
TCCCGTGGTGCTCCGCGGCGCGGCCTTGCTCTCTTCCGGTCGCGGGACACCGGGTGTAGAGGGCGGTCGCGGCGG
GCAGTGGCGGCAGA**ATG**TTGGCTACCAGGGTATTTAGCCTAGTTGGCAAGCGAGCAATTTCCACCTCTGTGTGTG
TACGAGCTCATGAAAGTGTTGTGAAGAGCGAAGACTTTTCGCTCCCAGCTTATATGGATCGGCGTGACCACCCCT
TGCCGGAGGTGGCCCATGTCAAGCACCTGTCTGCCAGCCAGAAGGCACTGAAGGAGAAGGAGAAGGCCTCCTGGA
GCAGCCTCTCCATGGATGAGAAAGTCGAGTTGTATCGCATTAAGTTCAAGGAGAGCTTTGCTGAGATGAACAGGG
GCTCGAACGAGTGGAAGACGGTTGTGGGCGGTGCCATGTTCTTCATCGGTTTCACCGCGCTCGTTATCATGTGGC
AGAAGCACTATGTGTACGGCCCCCTCCCGCAAAGCTTTGACAAAGAGTGGGTGGCCAAGCAGACCAAGAGGATGC
TGGACATGAAGGTGAACCCCATCCAGGGCTTAGCCTCCAAGTGGGACTACGAAAAGAACGAGTGGAAGAAG**TGA**G
AGATGCTGGCCTGCGCCTGCACCTGCGCCTGGCTCTGTCACCGCCATGCAACTCCATGCCTATTTACTGGAAACC
TGTTATGCCAAACAGTTGTACCACTGCTAATAAATGACCAGTTTACCTGAAA

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## FIGURE 4615

MLATRVFSLVGKRAISTSVCVRAHESVVKSEDFSLPAYMDRRDHPLPEVAHVKHLSASQKALKEKEKASWSSLSM
DEKVELYRIKFKESFAEMNRGSNEWKTVVGGAMFFIGFTALVIMWQKHYVYGPLPQSFDKEWVAKQTKRMLDMKV
NPIQGLASKWDYEKNEWKK

# FIGURE 4616A

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GTTCTAGAACATTCTCATCACCCATATTTACATTTATTTTTAATAACTCTCATGTGTAAGCTGAGTGTTTTAAAC
TTTAGAGACTTCTGGGGGGTGCTGAACTTGATAAAAATATTCAGTATACAAGTGTTCTTTATAGTTCACTCATCA
TTTTCATAGAATTAGGGTTTTAAAATTAGAAAGTAATTTAGGCCATTTCCATCTCCTGTCCCTCAAATCCCAGCT
CAGTTTTGGGATGAGGTGTCAAGTATAAGTTTGTAAGTATGCCAGTCATTTGCACGGCTAAGAGAAACATCTAGA
GAAGTCTATATACGACTTGCTTAAAGCTGAATGTTGATTTACTGTTCACATGATTTGGGTGATTTTAGTCACTGG
GACTGAGCTAATGGAGTTGAAGCATTGTTGCGGGCATTGTACCTCCAGACCAGTGTGTAATACAAAGAGTTCTTG
CAGACATAGGACAGAATTGGAGAAACAGCTTCTAACAGTGGGAAGACTCTCAGTACAACCAAGCTATTCCTTACC
TTTCTGATTTCTGAACTTTTTTCCATGTGATACCTGCTGCTTTGAAGGCACTAAAATAACAGAAGCAGATAGAGC
AGAAATCCTCACTCAGATCTTCCTCCTTCCTACCTGTATAACAGTTTGTGGCTTGCCTTGTCTGTTTTGTGCGTT
TCGTTACGCGTATGTGAGTATGTGCACGTGATTTCCAGAAAGGAGAAGCGCACGATACTGCCCGTGCTCTGTGAC
TCCTGAGTGCACGCTTCCTCTGCATTTGGGCTCCTAGGTCGGCCTCGTCCTGTGGACGTTGCCCCTTGTTTCGTG
CCATCCACACATTCCTGATGCCCCGCTGCTCTACTCTTTCTCCAGAGTACTTTTTCCAAACATGTGATTTGCACA
TTTGTTATGTTTATTGTTTGTTTTCCACTTCTAGAAGTGTGCCACTAGGCAGGAATGTTTGATTTGTTCACTGAT
GATCCCAGATCTCTAGAACCCTGCCTTGCCTGTAGAGGGTGCTTGGTAAATGTGCTCTGAATGAATGGCTCCATG
ATCCTCGTTTCTAAGAGCTAGCACGATTTCTCACTCAGTCCTGGTTGGACACAGGTTCCCTGGAACAGTGCTGTT
GTGGTTATCTTCTCACGTGTCTTTGTTTCTGAACTTGAAACGCTTTGAGTTTTTTATTGTTTTTGTTCTTCCTCA
TTAGTTTGAGTCCCTTGCAGATAGGCTTTCATTTTGTCCAGTCACCTGTTCAGGGAGCCCTGAGGGCCTTGGCCC
ACGTCTGCAGGTAACTGGTTTTTTTATTTTTATTTTTTTATTTTGAGACGAAGTCTCGCTCTGTCACCAGGCTGG
AGTGCAGCGGTGCGATCTCAGCTCACTGCAACCTCCGCCTCCTGCGTTCAAGCGATTCTCCTGCCTCAGCCTTCC
GAGTAGCTGGGACTATAGGCACGTGCCGCCACGCCCGGCTAATTTTTTGTATTTTTAGTAGAGACGGGGTTTCAC
CATGTTAGCCAGGATGGTCTCGATCTCCTGACATCGTGATCCGCCTGCCTGGGCCTCCCAAAGTGCTGGGATTAC
AGGTGTGAGCCACCGCGCCCAGCCCTGCAGGTAACTGTTAATGTAGGAAGTGCTGCCTCTGGGCACCTTGGCCCC
AGGGTTCATTAGCAGTTGCCCCTGGTGGGTTTTTGTTGGCTGTGATGAGAAGTGCTTCTGTTCCCCCTCCACCAC
ACTCCTGCAACTGTTTAAACAGTGGCTGTGACCCCCTGAGATGATCCAGGGTTTCAAGGCGTGCACATGTCTGTG
TTTCGGTTTTCAGAAGTATCACCTTGGGGTGACTCTCAACTTACATGGATTTTCAAAGATTTATTCAATATGTTT
TTCAGAAAGTGTTGTGAAGAGCGAAGACTTTTCGCTCCCAGCTTATATGGATCGGCGTGACCACCCCTTGCCGGA
GGTGGCCCATGTCAAGCACCTGTCTGCCAGCCAGAAGGCATTGAAGGAGAAGGAGAAGGCCTCCTGGAGCAGCCT
CTCCATGGATGAGAAAGTCGAGTGTGGGTATTGAAGGGACCCACAGGCGCGCCCAGCAGCTCTCGGAAGCGTGTG
TGTGACAGAGCCTCTGCTCACTTCTGGGCCTACTGTCTAGAGGCAGTCTTGCACAGGAGGGTTGCTCTGCTGGGT
TTCGGGGTCACTGTGCCAGGGCCCCAGTTTATGTGCTCACCAGTCACTTAGCTCTGCCAGCTGACAGGATCTTTT
GCTAGGCCCCCTTCTCTGTGCTGAGTGGAGGTAGCCTCTCAGCATATCTGCTGGGTAAGACATAGTTAACTGTAA
ATTATTGAAAGAAACTCAGCAAAATGCATAGTGTTTGGTATGAAAGGGGCAGAAAAATAACAAGATTAAATAGAC
CCTAATACTGTAATTCAAGTAAGAAATAATTTTGCAGTTTTAATTTGCACCTGAAGCGAACTGTATGCATTTTCT
TCTTTCCTTGCCCTGTCACATGCCTGCGTGGGCACGTGTGTGCACGTACGTGCGTGAACATGATGTGGCCTGGGT
TGGTGTATCCTTCAGCTCTGTGTTTCCTCCTTCACAAGTGTGGTTTTGGGGAGAAGTGGTTGAATGTTGCAGAGG
AGGGAGCTGCTGACCTTTGTGCCTGTAAATGGCTGTCCTCTCTGCCCCCAGTGTATCGCATTAAGTTCAAGGAGA
GCTTTGCTGAGATGAACAGGGGCTCGAACGAGTGGAAGACGGTTGTGGGCGGTGCCATGTTCTTCATCGGTTTCA
CCGCGCTCGTTATCATGTGGCAGAAGCACTATGGTGAGTAGAGAGGGAGGAAGGCATGGGCGCCTGGACTGGGGC
TCCAGCCTGCAGTGCCCATTGGTGGGCTGTCGGGGACCTCCATACCTTGAGGCTATGAGATAGGGACTGCATTCC
AGAGTTCATCTCAGGATTGTTTCCAGGCCTTGGTGACCTGGAGAACTGAAGTCGTGGGAGGTTAGTTTATAAGCC
AGCATCTGATTATTCATAGCCATGCTTGTTGGGTGGTGAAATACCTTAACTACTTTGTACAGCACACCACGTTTT
CAGTAGCAATTTATGTGCTCACCAGTCACTTAGCGAAAGATGACTTCGTGAAGGTTCGAGCAAGGATAAGGGGAC
TCATTCATTGAATGACTGTCTGGACTGTTGTGAGGACTGCATCTCAACAGCCAGCATCTGGGGGTCCCGACCTGA
TAGTTTGTGTGTGGGCATTGCCGGGTTGCTCGCTCGTGGTAATGACTCTTCCCCGAGGTTCTTTCTGTCCAGGCA
GAACAGGCATTTTTGCATTCTGAATAGGTATATTCTCGTACTTTTGGTTTGAATGTGGATGTGGGTTAATAACAG
ACCCGAATCTATTTGATCTTCCAGGTCACCTTGGGCTCTGTTGTCAGATCCTGTTATCCATAGCCTTTAGAGAG
GACCTTCTGCTTTTAGCTTATTTTGTTGCTAACTTTTTACAAACAAAGGGCTAATTTTAAAATGTCAGTGTTGTC
AGTGGTCAGAAACCGTGTGTTTGAGCGGGTGTTGAGTGGCAGGTGGCTCTGCTGACCTGGTGGCTGGTGTGTCGG
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# FIGURE 4616B

GAGGATTTAACCTGTGTGAGGGATTGGCCTAGAAACAACCTGTTGAGATAGTCTTGCCCCATAACCTGTCTCACA
CCGTAGTGTACGGCCCCCTCCCGCAAAGCTTTGACAAAGAGTGGGTGGCCAAGCAGACCAAGAGGATGCTGGACA
TGAAGGTGAACCCCATCCAGGGCTTAGCCTCCAAGTGGGACTACGAAAAGAACGAGTGGAAGAAGTGAGAGATGC
TGGCCTGCGCCTGCACCTGCGCCTGGCTCTGTCACCGCCATGCAACTCCATGCCTATTTACTGGAAACCTGTTAT
GCCAAACAGTTGTACCACTGCTAATAAATGACCAGTTTACCTG

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# FIGURE 4617

GCCGTTTTCTTTCCTGGTGTCCCGTCGCGGCTTGGGACCCGGCAAG**ATG**GGCAAGAAGGGCAAGAAGGAGAAGAA
GGGCCGCGGCGCGGAGAAGACGGCCGCCAAGATGGAGAAGAAGGTGTCTAAGCGCTCGCGGAAGGAGGAGGAAGA
CCTGGAAGCGCTCATAGCCCATTTCCAGACACTCGATGCCAAGAGGACTCAGACTGTGGAACTTCCGTGCCCCCC
ACCCTCACCAAGGTTAAATGCCTCCCTCTCGGTTCATCCTGAGAAAGATGAGTTAATCCTTTTTGGAGGTGAATA
TTTCAACGGCCAAAAAACTTTTTTGTATAACGAGCTCTATGTCTACAATACCAGAAAGGACACCTGGACCAAAGT
TGACATCCCCAGTCCACCTCCGAGGCGCTGTGCTCACCAGGCGGTGGTAGTGCCTCAAGGTGGCGGACAGCTGTG
GGTCTTTGGAGGGGAGTTTGCCTCTCCCAACGGAGAGCAGTTCTACCACTACAAGGATCTCTGGGTCCTGCATTT
GGCCACCAAGACCTGGGAACAAGTCAAATCAACAGGCGGTCCTTCGGGTCGGAGTGGACATCGGATGGTGGCCTG
GAAGAGACAATTGATCCTGTTTGGTGGCTTCCATGAAAGTACACGGGATTACATCTACTACAACGACGTGTATGC
CTTTAATCTGGACACCTTCACATGGAGCAAGCTGTCCCCGTCAGGGACGGGGCCCACACCCAGATCAGGCTGCCA
GATGTCCGTCACTCCCCAGGGCGGCATCGTCGTCTATGGGGGCTACTCGAAACAGAGAGTTAAGAAAGACGTGGA
CAAGGGCACACGGCACTCAGACATGTTCCTGCTGAAGCCAGAGGACGGAAGAGAAGACAAGTGGGTTTGGACTCG
GATGAACCCTTCGGGGGTCAAGCCCACCCCACGGTCTGGCTTTTCCGTGGCCATGGCCCCGAATCACCAGACACT
GTTCTTCGGGGGTGTCTGTGACGAGGAAGAGGAGGAGAGCCTGTCGGGCGAGTTCTTCAACGATCTGTACTTCTA
CGACGCCACCAGGAACCGTTGGTTTGAGGGACAGCTGAAGGGACCCAAGTCTGAAAAGAAGAAACGCAGGCGGGG
CAGAAAAGAGGAGCCCGAAGGTGGTAGCAGGCCGGCGTGTGGGGGAGCTGGCACCCAGGGGCCTGTGCAGCTGGT
CAAGGAGGTGGTGGCCGAGGATGGCACCGTGGTCACCATTAAGCAGGTGCTCACCGCGCCAGGCTCGGCGGGGCA
GCCCCGGTCTGAGGACGAAGACAGCCTTGAGGAGGCCGGCAGCCCCGCACCTGGGCCGTGTCCACGCTCCAACGC
CATGCTGGCTGTGAAGCATGGGGTGCTCTACGTCTATGGGGGCATGTTTGAGGCCGGCGACCGCCAGGTCACCCT
CAGCGACCTGCACTGCCTGGACCTGCACAGGATGGAGGCGTGGAAGGCCTTGGTGGAGATGGACCCAGAAACTCA
GGAGTGGCTGGAGGAGACGGACTCGGAAGAGGACAGTGAGGAGGTTGAGGGCGCCGAGGGTGGGGTCGACGACGA
AGACAGCGGAGAGGAGAGCGGTGCGGAGGAC**TGA**GAAGAGCCCCTGCCAGGGGCGCCTGGCAAGTGCTGTGCCCA
CGTCCGCCCAGGACCCAGCCGTGTTGAGTGAAGCTCTTGGGGCCAGCGTGCGTCCTGACGCACAGGAGAGAGCTG
AAGGTGGGTGGCCCAGGCCAGGGTGTGAACTTTCTCCCATGGTTTAGTCTCTGACGCGGCACTGGGCCGGAAGTT
CAACTGAGTGCAGTGCAGGTGGATTCCCTCAGCAGCCTGTGTGTTGTGTGAAATAAATTGGACTTGAAACAAGAA
AAAAAAAAAAAA

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# FIGURE 4618

MGKKGKKEKKGRGAEKTAAKMEKKVSKRSRKEEEDLEALIAHFQTLDAKRTQTVELPCPPPSPRLNASLSVHPEK
DELILFGGEYFNGQKTFLYNELYVYNTRKDTWTKVDIPSPPPRRCAHQAVVVPQGGGQLWVFGGEFASPNGEQFY
HYKDLWVLHLATKTWEQVKSTGGPSGRSGHRMVAWKRQLILFGGFHESTRDYIYYNDVYAFNLDTFTWSKLSPSG
TGPTPRSGCQMSVTPQGGIVVYGGYSKQRVKKDVDKGTRHSDMFLLKPEDGREDKWVWTRMNPSGVKPTPRSGFS
VAMAPNHQTLFFGGVCDEEEEESLSGEFFNDLYFYDATRNRWFEGQLKGPKSEKKKRRRGRKEEPEGGSRPACGG
AGTQGPVQLVKEVVAEDGTVVTIKQVLTAPGSAGQPRSEDEDSLEEAGSPAPGPCPRSNAMLAVKHGVLYVYGGM
FEAGDRQVTLSDLHCLDLHRMEAWKALVEMDPETQEWLEETDSEEDSEEVEGAEGGVDDEDSGEESGAED

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# FIGURE 4619

GGCTGTGACTAGCGGGCCGGCCCGGGCCAGGACAGCGGGCGGCGGGCGGCGCGGGCCTGGCCCCGGG**ATG**GCTAT
GTTCCGCAGCCTGGTGGCCTCGGCTCAGCAGCGGCAGCCGCCGGCCGGGCCGGCGGGCGGCGACAGCGGCCTGGA
GGCGCAGTACACCTGCCCCATCTGCCTGGAGGTCTATCACCGGCCCGTGGCCATCGGCAGCTGCGGCCACACGTT
CTGCGGGGAGTGTCTCCAGCCCTGCCTGCAGGTGCCATCCCCGCTGTGCCCACTGTGCCGCATGCCCTTCGACCC
CAAGAAGGTGGACAAGGCCACCCACGTGGAGAAGCAGCTCTCATCCTACAAAGCGCCCTGTCGAGGCTGCAACAA
AAAGGTGACCCTGGCAAAGATGAGAGTGCACATTTCGTCCTGCCTGAAGGTCCAGGAGCAGATGGCCAACTGCCC
CAAGTTCGTCCCCGTGGTGCCCACATCACAGCCTATCCCCAGCAACATCCCCAACAGGTCCACCTTCGCCTGCCC
GTACTGTGGTGCCCGCAACCTGGACCAGCAGGAGCTGGTGAAGCACTGTGTGGAAAGCCACCGCAGCGACCCCAA
CCGCGTGGTGTGCCCCATCTGCTCGGCAATGCCCTGGGGGGACCCCAGCTACAAGAGCGCCAACTTCCTGCAGCA
CCTGCTTCACCGACACAAGTTCTCCTACGACACCTTTGTGGACTACAGTATTGACGAGGAGGCCGCCTTCCAGGC
TGCTCTGGCCCTGTCTCTCTCTGAGAAC**TGA**AGGGAAGCGCAGCCACCCGCCTGCGTCTGGGGTCAGGGATGTCC
CCGCTCCTGTGTCGCACCTGGCACCTGCTCGGGAGTGCACCTCACCGGACTGAGCTCACAGGAGGAGCCTGCACC
CGCGCAGAAGGGGGAGCCGGGGCCGAGCCTCCGGGCCTGAATACGGGCCAGCCGCCGAGGCCGCCAGAGCAGGGCC
GCCTGGTCCCACCGGCGTCGCTGGGTTCTTCGGTGCTTCTGGCCGAGCAGGCGGCCTACTTGGGCAGGGCTGGAC
GCTGAGACCTGGAGCTGCCACCGTCTCTTCAAGCCATGATACCCCCTCGTGGGAAGAAGGGACCGACGCGCGAGT
CGCGGCTGCGCAGTCGAGCCCGGGAGGAACCCAGGCTGCTGCCCTGGCCAGCCCGACCCTGCCCCGGCCCCACTT
CCACCTTGCGCATTTGGTACTGGCTTTTGTGATACTTAGGAACCCTGGCATCTTTTCTATATTATCCAGTGTGAT
AATCTTTTCACGTTTTATAGAGCAAAGACAGAGCAGTTACTCTTCATATTGCAATATCTGTGTTTGACTAGGAAT
AATAGTATTTTTATGGAACATTTACAAAATTATATTTTTTAAGAAAACAATCAAAACAAGCATTGGGGGATTGGG
GCAAGGATGGAAGGAGCAGTGGGGCAGCTGCCAGAGCTCAGGCGAGCCATGGGGTCTGCTGTGGGGTCTGCCCTG
GCCACCCACTGTGTGTCTGGGTCCTTGAGGTTTGTACGTTTCTCTTTGATGACCAGGAAGAAATCCCAGCACCCC
AGCCACAGGCTGTGGCTGCTCCCAGCAGAGGCGGGGCCGGCAGAGAAGGGGCCTCCTCCACCCAGAGTCCTGGCC
TTGGCCCGCTGTCACCTTCAAAGCTGACTGTGCCCCGCTGCGGGAGGGGACGGCACCCCAGTGGTGGCAGAGCTT
GGGGGCCTGGGCAGGGGCCCGCTTGGCGGGCCGGGCAACACGTCAACATTCTTTTCTGTTCTTGGCATTAATTAT
TGCTGTCTTTTTTTTAAAAAAAAAAAGTTTAAATAAAATGTCTCAGAGC

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# FIGURE 4620

MAMFRSLVASAQQRQPPAGPAGGDSGLEAQYTCPICLEVYHRPVAIGSCGHTFCGECLQPCLQVPSPLCPLCRLP
FDPKKVDKATHVEKQLSSYKAPCRGCNKKVTLAKMRVHISSCLKVQEQMANCPKFVPVVPTSQPIPSNIPNRSTF
ACPYCGARNLDQQELVKHCVESHRSDPNRVVCPICSAMPWGDPSYKSANFLQHLLHRHKFSYDTFVDYSIDEEAA
FQAALALSLSEN

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# FIGURE 4621

CTCCGACGTCATCGGGGCGCGCCCTCGCGCTGTCGCCGCCACAGTCTGCGACGGGACCCGGCGTGCCCATGTGTC
AGGTGGGCGAGGACTACGGGGAGCCGGCGCCTGAGGAGCCGCCCCCGGCGCCGCGGCCCAGGGACTGTTTCAAGG
CCTTCTACGTCCACAAGTTCAGAGCCATGCTGGGCAAGAACCGGCTCATCTTTCCAGGCGAGAAGGTGCTCTTGG
CGTGGTCTGGGGGGCCTTCGTCCAGCTCCATGGTCTGGCAGGTTCTTGAGGGCCTGAGCCAAGATTCTGCCAAAA
GACTGCGCTTTGTGGCAGGAGTCATCTTTGTTGACGAGGGAGCAGCCTGTGGCCAGAGCCTAGAGGAGAGATCAA
AGACCCTGGCCGAAGTGAAGCCCATTCTGCAAGCAACTGGGTTCCCATGGCATGTGGTGGCCTTAGAGGAGGTGT
TCAGCCTGCCACCGTCGGTGCTTTGGTGCTCTGCCCAGGAGCTAGTGGGATCCGAGGGGGGCCTACAAGGCGGCCG
TGGACAGCTTCCTCCAGCAGCAGCATGTGCTGGGGGCCGGGGGTGGTCCTGGCCCGACTCAAGGGGAGGAACAGC
CACCCCAGCCCCGCTGGACCCCCAGAACCTGGCAAGACCGCCTGCCCCTGCCCAGACTGAGGCTCTTTCCCAAC
TGTTCTGCTCAGTGAGGACACTGACTGCCAAGGAGGAGCTTCTGCAGACCCTGCGGACCCACCTGATCCTCCACA
TGGCCCGAGCCCACGGCTACTCCAAGGTCATGACTGGGGACAGCTGCACACGCTTGGCTATCAAGCTCATGACCA
ACCTGGCGCTGGGTCGAGGGGCCTTCCTGGCCTGGGATACGGGCTTCTCGGATGAGCGGCACGGGGACGTGGTGG
TGGTGCGGCCCATGCGGGACCACACCCTGAAGGAGGTCGCTTTCTACAACCGCCTGTTCTCTGTTCCTTCTGTCT
TCACACCAGCCGTCGACACCAAGGCCCCTGAAAAGGCCAGCATCCACCGGCTGATGGAGGCCTTCATCCTCAGGC
TGCAGACCCAGTTCCCCTCCACTGTCAGCACTGTGTACAGGACAAGTGAGAAGCTGGTGAAGGGCCCCCGGGATG
GCCCTGCTGCTGGCGACTCCGGCCCCCGCTGCCTCCTCTGCATGTGTGCCCTGGACGTCGACGCCGCTGACAGTG
CCACGGCTTTTGGGGCTCAGACCTCCTCGCGTCTCTCCCAGATGCAGTCACCCATCCCCCTGACTGAGACCCGGA
CACCCCCGGGGCCCTGCTGTTCTCCAGGGGTGGGCTGGGCCCAGCGCTGCGGCCAGGGGGCCTGTAGGAGGGAGG
ACCCCCAAGCCTGCATTGAGGAGCAGCTGTGCTACAGCTGCCGCGTGAACATGAAGGACTTGCCCTCACTGGACC
CCCTGCCGCCGTACATCCTGGCTGAGGCCCAGCTCCGCACACAGAGGGCCTGGGGCTTGCAGGAGATCCGGGACT
GTCTGATTGAGGACAGTGACGACGAGGCGGGCCAGAGCTGAGCGTGAGGACGTGCTTGCCGGGACAGCAGGCAGT
GGCCACCTGGTACACCACACTGGAGCCGGAAGGCAAGGACGGGGGACTGGCCTCTGATTGTCCATTTGTATAAAT
AAAACATTTTTTAATT

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## FIGURE 4622

CGCGCACTCCGCCGCCATGGAGCAGCGCCGCGTCACCGACTTCTTCGCGCGCCGCCGCCCCGGGCCCCCCGCAT
CGCGGCGCCCAAGCTGGCCTGCCGCACCCCCAGCCCCGCCAGGCCCGCACTCCGCGCCCCGGCCTCCGCTACCAG
TGGCAGCCGCAAGCGCGCCCGCCCGCCCGCCGCCCCCGGACGCGACCAGGCCAGGACACCGGCCCGCAGGAGACT
GCGGCTGTCGGTGGACGAGGTTTCCAGCCCCAGTACCCCCGAGGCCCCAGACATCCCAGCCTGCCCTTCTCCGGG
CCAGAAGATAAAGAAATCCACCCCGGCAGCAGGTCAGCCGCCCCACCTGACATCCGCGCAGGACCAGGACACCAT
CTCTGAGCTTGCGTCATGCCTGCAACGGGCCCGGGAGCTGGGGGGCAAGAGTCCGGGCGCTGAAGGCCAGTGCCCA
GGATGCTGGGGAGTCCTGCACCCCAGAGGCCGAGGGCCGCCCTGAGGAGCCATGTGGCGAGAAGGCGCCCGCCTA
CCAGCGCTTCCATGCCCTGGCCCAGCCCGGCCTGCCGGGACTCGTGCTGCCCTACAAGTACCAGGTGCTGGCGGA
GATGTTCCGCAGCATGGACACCATCGTGGGC**ATG**CTCCACAACCGCTCCGAGACGCCCACCTTTGCCAAGGTCCA
GCGGGGCGTCCAGGACATGATGCGTAGGCGTTTTGAGGAGTGCAATGTTGGCCAGATCAAAAACCGTGTACCCGGC
CTCCTACCGCTTCCGCCAGGAGCGCAGTGTCCCCACCTTCAAGGATGGCACCAGGAGGTCAGATTACCAGCTCAC
CATCGAGCCACTGCTGGAGCAGGAGGCTGACGGAGCAGCCCCCCAGCTCACGGCCTCGCGCCTCCTGCAGCGACG
GCAGATCTTCAGCCAGAAGCTGGTGGAGCATGTCAAGGAGCACCACAAGGCCTTCCTGGCCTCCCTGAGCCCCGC
CATGGTGGTGCCGGAGGACCAGCTGACCCGCTGGCACCCGCGCTTCAACGTGGATGAAGTACCCGACATCGAGCC
GGCCGCGCTGCCCCAGCCACCCGCCACGGAGAAGCTCACCACTGCTCAGGAGGTGCTGGCCCGGGCCCGCAACCT
GATTTCACCCAGGATGGAGAAGGCCTTGAGTCAATTGGCCCTGCGCTCTGCTGCGCCCAGCAGCCCCGGGTCTCC
CAGGCCAGCACTGCCGGCTACCCCACCAGCCACCCCGCCTGCAGCCTCTCCCAGTGCTCTGAAGGGGGTGTCCCA
GGATCTGCTGGAGCGGATCCGAGCCAAGGAGGCACAGAAGCAGCTGGCACAGATGACGCGGTGCCCGGAGCAGGA
GCAGCGGCTGCAGCGCTTAGAACGGCTGCCTGAGCTGGCCCGCGTGCTGCGGAGCGTCTTTGTGTCCGAACGCAA
GCCTGCGCTCAGCATGGAGGTGGCCTGTGCCAGGATGGTGGGCAGCTGTTGTACTATCATGAGCCCTGGGGAAAT
GGAGAAGCACCTGCTGCTCCTCTCCGAGCTGCTGCCGGACTGGCTCAGCCTCCACCGCATCCGCACCGACACCTA
CGTCAAGCTGGACAAGGCCGCGGACCTCGCCCACATCACTGCACGCCTGGCCCACCAGACACGTGCTGAGGAGGG
GCTGTGAGCCTGGGGGCCACTGTGGACAGACGTGGGCTTCAGAAGCTCGCTGGCCTGGGCCCACCAGCATTTTCT
TTTATGAACATGATACACTTTGGCCTTCCTTTCCCCAGCGCCCCTGAGGGCCAGAGGCAGATGTGGGCTGCAGGC
TGCACAGCCCGAGGGTCTCTGGCTGCGGGCGGTGGGCCCCTTCATGGGGCTCACCTGGTGGATTCACATTAAACC
GGTTTCTGTGGGC

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# FIGURE 4623

MFRSMDTIVGMLHNRSETPTFAKVQRGVQDMMRRRFEECNVGQIKTVYPASYRFRQERSVPTFKDGTRRSDYQLT
IEPLLEQEADGAAPQLTASRLLQRRQIFSQKLVEHVKEHHKAFLASLSPAMVVPEDQLTRWHPRFNVDEVPDIEP
AALPQPPATEKLTTAQEVLARARNLISPRMEKALSQLALRSAAPSSPGSPRPALPATPPATPPAASPSALKGVSQ
DLLERIRAKEAQKQLAQMTRCPEQEQRLQRLERLPELARVLRSVFVSERKPALSMEVACARMVGSCCTIMSPGEM
EKHLLLLSELLPDWLSLHRIRTDTYVKLDKAADLAHITARLAHQTRAEEGL

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## FIGURE 4624

AGCCCGGGGCAGCCAGCAGTACCGGGCCCTGACCGTGCCCGAGCTCACCCAGCAGATGTTCGATGCCAAGAACAT
GATGGCGCCGCATGTCCATGAAGGAGGTGGACGAGCAGATGCTGGCCATCCAGAGCAAGAACAGCAGCTACTTCG
TGGAGTGGATCCCCAACAACGTGAAGGTGGCCGTGTGTGACATCCCGCCCCGCGGCCTCAAGATGTCCTCCACCT·
TCATCGGGAACAGCACGGCCATCCAGGAGCTGTTCAAGCGCATCTCCGAGCAGTTCACGGCCATGTTCCGGCGCA
AGGCCTTCCTGCACTGGTACACGGGCGAGGGCATGGACGAGATGGAGTTCACCGAGGCCGAGAGCAACATGAACG
ACCTGGTGTCCGAGTACCAGCAGTACCAGGACGCCACGGCCGAGGAAGAGGGCGAGATGTACGAAGACGACGAGG
AGGAGTCGGAGGCCCAGGGCCCCAAGTGAAGCTGCTCGCAGCTGGAGTGAGAGGCAGGTGGCGGCCGGGGCCGAA
GCCAGCAGTGTCTAAACCCCCGGAGCCATCTTGCTGCCGACACCCTGCTTTCCCCTCGCCCTAGGGCTCCCTTGC
CGCCCTCCTGCAGTATTTATGGCC

# FIGURE 4625

MAVQGSQRRLLGSLNSTPTAIPQLGLAANQTGARCLEVSISDGLFLSLGLVSLVENALVVATIAKNRNLHSPMYC
FICCLALSDLLVSGSNVLETAVILLLEAGALVARAAVLQQLDNVIDVITCSSMLSSLCFLGAIAVDRYISIFYAL
RYHSIVTLPRARRAVAAIWVASVVFSTLFIAYYDHVAVLLCLVVFFLAMLVLMAVLYVHMLARACQHAQGIARLH
KRQRPVHQGFGLKGAVTLTILLGIFFLCWGPFFLHLTLIVLCPEHPTCGCIFKNFNLFLALIICNAIIDPLIYAF
HSQELRRTLKEVLTCSCSQDRALVSWDVKSLGGSVCQELLPQQPQEKGLCDQKASSTALQRLLQKEFWEVISDEH
GIDPSGNYVGDSDLQLERISVYYNEASSHKYVPRAILVDLEPGTMDSVRSGAFGHLFRPDNFIFGQSGAGNNWAK
GHYTEGAELVDSVLDVVRKECENCDCLQGFQLTHSLGGGTGSGMGTLLISKVREEYPDRIMNTFSVVPSPKVSDT
VVEPYNATLSIHQLVENTDETYCIDNEALYDICFRTLKLATPTYGDLNHLVSATMSGVTTSLRFPGQLNADLRKL
AVNMVPFPRLHFFMPGFAPLTARGSQQYRALTVPELTQQMFDAKNMMAACDPRHGRYLTVATVFRGRMSMKEVDE
QMLAIQSKNSSYFVEWIPNNVKVAVCDIPPRGLKMSSTFIGNSTAIQELFKRISEQFTAMFRRKAFLHWYTGEGM
DEMEFTEAESNMNDLVSEYQQYQDATAEEEGEMYEDDEEESEAQGPK

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# FIGURE 4626

GGAGAGGGTGTGAGGGCAGATCTGGGGGTGCCCAGATGGAAGGAGGCAGGCATGGGGGACACCCAAGGCCCCCTG
GCAGCACCATGAACTAAGCAGGACACCTGGAGGGGAAGAACTGTGGGGACCTGGAGGCCTCCAACGACTCCTTCC
TGCTTCCTGGACAGGACT**ATG**GCTGTGCAGGGATCCCAGAGAAGACTTCTGGGCTCCCTCAACTCCACCCCCACA
GCCATCCCCCAGCTGGGGCTGGCTGCCAACCAGACAGGAGCCCGGTGCCTGGAGGTGTCCATCTCTGACGGGCTC
TTCCTCAGCCTGGGGCTGGTGAGCTTGGTGGAGAACGCGCTGGTGGTGGCCACCATCGCCAAGAACCGGAACCTG
CACTCACCCATGTACTGCTTCATCTGCTGCCTGGCCTTGTCGGACCTGCTGGTGAGCGGGAGCAACGTGCTGGAG
ACGGCCGTCATCCTCCTGCTGGAGGCCGGTGCACTGGTGGCCCGGGCTGCGGTGCTGCAGCAGCTGGACAATGTC
ATTGACGTGATCACCTGCAGCTCCATGCTGTCCAGCCTCTGCTTCCTGGGCGCCATCGCCGTGGACCGCTACATC
TCCATCTTCTACGCACTGCGCTACCACAGCATCGTGACCCTGCCGCGGGCGCGGCAAGCCGTTGCGGCCATCTGG
GTGGCCAGTGTCGTCTTCAGCACGCTCTTCATCGCCTACTACGACCACGTGGCCGTCCTGCTGTGCCTCGTGGTC
TTCTTCCTGGCTATGCTGGTGCTCATGGCCGTGCTGTACGTCCACATGCTGGCCCGGGCCTGCCAGCACGCCCAG
GGCATCGCCCGGCTCCACAAGAGGCAGCGCCCGGTCCACCAGGGCTTTGGCCTTAAAGGCGCTGTCACCCTCACC
ATCCTGCTGGGCATTTTCTTCCTCTGCTGGGGCCCCTTCTTCCTGCATCTCACACTCATCGTCCTCTGCCCCGAG
CACCCCACGTGCGGCTGCATCTTCAAGAACTTCAACCTCTTTCTCGCCCTCATCATCTGCAATGCCATCATCGAC
CCCCTCATCTACGCCTTCCACAGCCAGGAGCTCCGCAGGACGCTCAAGGAGGTGCTGACATGCTCCTGG**TGA**GCG
CGGTGCACGCGCTTTAAGTGTGCTGGGCAGAGGGAGGTGGTGATATTGTGTGGTCTGGTTCCTGTGTGACCCTGG
GCAGTTCCTTACCTCCCTGGTCCCCGTTTGTCAAAGAGGATGGACTAAATGATCTCTGAAAGTGTTGAAG

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## FIGURE 4627

MAVQGSQRRLLGSLNSTPTAIPQLGLAANQTGARCLEVSISDGLFLSLGLVSLVENALVVATIAKNRNLHSPMYC
FICCLALSDLLVSGSNVLETAVILLLEAGALVARAAVLQQLDNVIDVITCSSMLSSLCFLGAIAVDRYISIFYAL
RYHSIVTLPRARQAVAAIWVASVVFSTLFIAYYDHVAVLLCLVVFFLAMLVLMAVLYVHMLARACQHAQGIARLH
KRQRPVHQGFGLKGAVTLTILLGIFFLCWGPFFLHLTLIVLCPEHPTCGCIFKNFNLFLALIICNAIIDPLIYAF
HSQELRRTLKEVLTCSW

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# FIGURE 4628

GCATAGGCTAGGTAGCGAGGCCGCGTGTGAATCGGCCGAGGCCGAGTTTCTGCGCTTCCTTCTCCCTCTCTCCAG
ACGTCGTGGTCGTTCGGTCCT**ATG**TCGCGCCGGGCCCTCCGGAGGCTGAGGGGGGAACAGCGCGGCCAGGAGCCC
CTCGGGCCCGGCGCCTTGCATTTCGATCTCCGTGATGACGATGACGCGGAAGAAGAAGGGCCCAAGCGGGAGCTT
GGTGTCCGGCGTCCCGGGGGCGCAGGGAAGGAGGGCGTCCGAGTCAACAACCGCTTCGAGCTGATAAACATTGAC
GATCTTGAGGATGACCCTGTGGTGAACGGGGAGAGGTCTGGCTGTGCGCTCACAGACGCTGTGGCACCAGGGAAC
AAAGGAAGGGGTCAGCGTGGAAACACAGAGAGCAAGACGGATGGAGATGACACCGAGACAGTGCCCTCAGAGCAG
TCTCATGCAAGTGGCAAACTCCGGAAGAAGAAAAAAAAACAGAAAAACAAGAAAAGCAGCACGGGAGAAGCATCG
GAAAACGGACTAGAAGATATCGATCGCATCCTAGAGAGGATTGAGGACAGCACTGGGTTGAACCGTCCCGGCCCA
GCTCCCCTGAGCTCCAGGAAGCACGTTCTCTACGTGGAGCACAGACACTTGAATCCAGACACAGAACTGAAAAGG
TATTTTGGTGCCCGGGCAATCCTGGGGGAGCAAAGGCCACGGCAGAGACAACGTGTGTACCCCAAGTGCACATGG
CTGACCACCCCTAAAAGCACCTGGCCCCGCTACAGCAAACCAGGTCTGTCCATGCGGCTGCTGGAATCAAAAAAA
GGCCTCTCCTTCTTTGCGTTTGAGCACAGTGAGGAGTACCAGCAGGCTCAGCACAAGTTCCTGGTGGCCGTGGAG
TCTATGGAGCCGAACAACATCGTGGTTCTGCTCCAGACGAGCCCTTACCACGTTGACTCACTCCTGCAGCTCAGC
GATGCCTGCCGCTTTCAAGAGGATCAGGAGATGGCTCGAGACCTCGTAGAGAGAGCGCTGTACAGCATGGAATGT
GCGTTCCACCCCCTGTTCAGTCTCACCAGTGGGGCCTGCCGGCTGGATTACCGCAGACCCGAGAACAGGAGCTTC
TACCTGGCCCTCTACAAGCAGATGAGCTTCCTGGAGAAGCGAGGCTGCCCGCGCACGGCGCTGGAGTACTGCAAG
CTCATCCTGAGTCTCGAGCCGGATGAGGACCCCCTCTGCATGCTGCTGCTCATCGACCACCTGGCCTTGCGGGCC
CGGAACTACGAGTACCTGATCCGCCTCTTCCAGGAGTGGGAGGCTCATCGGAACCTGTCCCAGCTCCCTAATTTT
GCCTTCTCTGTTCCACTGGCGTATTTCCTGCTGAGCCAGCAGACAGACCTCCCTGAGTGTGAGCAGAGCTCTGCC
AGGCAGAAGGCCTCTCTCCTGATACAGCAGGCGCTCACCATGTTCCCTGGAGTCCTCCTGCCCCTGCTCGAGTCT
TGCAGTGTGCGGCCCGACGCCAGCGTTTCCAGTCACCGCTTCTTTGGACCCAATGCTGAAATAAGCCAGCCCCCT
GCCCTGAGCCAGCTGGTGAACCTGTACCTTGGGAGGTCACACTTTCTCTGGAAAGAGCCCGCCACCATGAGCTGG
CTGGAGGAGAACGTCCACGAGGTTCTGCAAGCAGTGGACGCCGGGGACCCAGCCGTGGAAGCCTGTGAGAACCGG
CGGAAGGTGCTCTACCAGCGTGCACCCAGGAATATCCACCGCCATGTGATCCTCTCTGAGATCAAGGAAGCCGTC
GCTGCCCTGCCCCCGGACGTGACCACGCAGTCTGTGATGGGGTTTGATCCTCTGCCTCCTTCGGACACAATCTAC
TCCTACGTCAGGCCAGAGAGGCTAAGTCCTATCAGCCATGGAAACACCATTGCTCTCTTCTTCCGGTCACTGTTG
CCAAACTATACCATGGAGGGGGAGAGGCCGAGGAAGGAGTGGCTGGGGGTCTGAACCGCAACCAGGGCCTGAAC
AGGCTGATGCTGGCTGTGCGCGACATGATGGCCAACTTCCACCTCAACGACCTGGAGGCGCCGCACGAGGACGAC
GCTGAGGGGGAGGGGGAGTGGGAC**TGA**GCGTCCGCAGAGGTGACCGAAAAGCCGTATGATGATGTTCCCGATTTC
TCTGTTGGTCGGAGTCGGCCAGTTGCCTGAAGTAGGGAAGCTGAGTGTGTCGCTCCCTGGTCCACTGTTTCTCCT
ATAAATGTAAATGGGTC

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## FIGURE 4629

MSRRALRRLRGEQRGQEPLGPGALHFDLRDDDDAEEEGPKRELGVRRPGGAGKEGVRVNNRFELININIDDLEDDPV
VNGERSGCALTDAVAPGNKGRGQRGNTESKTDGDDTETVPSEQSHASGKLRKKKKKQKNKKSSTGEASENGLEDI
DRILERIEDSTGLNRPGPAPLSSRKHVLYVEHRHLNPDTELKRYFGARAILGEQRPRQRQRVYPKCTWLTTPKST
WPRYSKPGLSMRLLESKKGLSFFAFEHSEEYQQAQHKFLVAVESMEPNNIVVLLQTSPYHVDSLLQLSDACRFQE
DQEMARDLVERALYSMECAFHPLFSLTSGACRLDYRRPENRSFYLALYKQMSFLEKRGCPRTALEYCKLILSLEP
DEDPLCMLLLIDHLALRARNYEYLIRLFQEWEAHRNLSQLPNFAFSVPLAYFLLSQQTDLPECEQSSARQKASLL
IQQALTMFPGVLLPLLESCSVRPDASVSSHRFFGPNAEISQPPALSQLVNLYLGRSHFLWKEPATMSWLEENVHE
VLQAVDAGDPAVEACENRRKVLYQRAPRNIHRHVILSEIKEAVAALPPDVTTQSVMGFDPLPPSDTIYSYVRPER
LSPISHGNTIALFFRSLLPNYTMEGERPEEGVAGGLNRNQGLNRLMLAVRDMMANFHLNDLEAPHEDDAEGEGEW
D

5016/6881
# FIGURE 4630

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ATGGTGACGCACGCCGCTGGCGCGAGGACCTTTTGTGAGGAGCAAAAGAAGGGATCCACCTATTCAGTTCCAAAA
TCTAAGGAGAAGTTGATGGAGAAGCATTCCCAGGAAGCCAGGCAGGCAGACAGGGAGTCGGAGAAGCCTGTGGAC
AGCCTCCACCCGGGGGCCGGGACAGCCAAGCACCCGCCGCCGGCAGCTTCGCTGGAAGAGAAACCTGATGTAAAG
CAAAAGTCCAGCAGGAAGAAAGTGGTCGTTCCACAGATCATCATCACGCGAGCGTCGAATGAGACGCTAGTCAGT
TGCAGTTCCAGCGGGAGTGACCAGCAGAGAACCATTCGGGAGCCGGAGGACTGGGGCCCCTACCGGCGGCACAGG
AACCCCAGTACAGCAGACGCCTATAATTCACATCTCAAAGAATAAACAAGCACCTTTGCATGGCACTCGCTACTC
CCTGCGATAGGCGTCTCGGGAACAGCCGCCTCACCCTGTGAGAAGCCGAGGCCCCTTCTCCAGTGCTCTCGGGGA
GGTTGCACCAGGCCCACCCCACCCTGTGAGAAACTGCAGCCCCCTTCTCCAGTGCTTTCGGGGAGGGTGCACCAG
GCCCGCCCCACCTTGTGAGAAGCCGTGGCCCCCTTCTCCAGTGCTCTCAGGGAGGGTGCACCAGGCCTGCCCCCG
CCGTGAGAAACTGCAGTCCCCTTCTCCAGTGCTCTCGGGGAGGGTGCACCAGGCCCACCCCACCCTGTGAGAACC
TGCAGCCCCCTTCTCCAATGCTCTCGGGGAGGGTACACCAGGGTTGCCCCACCCTGTGAGAAGCCACCGCCCCCT
TCTCCAGTGCTCTCGGGGAGGGTGCACCAGGGCTGCCCCACGCTGTAAGAAGCCGCCGCCCCCTTCTCCAGTGCT
CTCCAGCCCGCCCCACCCTGTGAGAAGCCATGGCCCCTTCTCCAGTGCTTTTGGGGAGGGTGCACCAGGGCCACC
CCACCCTGTGAGAAGCCGTGGCCCCCTTCTCCAGTGCTTTCGGGGAGGGTACACCAGGCCCGCCCCACCCTGTGA
GAAGCCGTGGCCCCCTTCTCCCGTGCTCTCAGGGAGGGTGCACCAGGCCTGCCCCCGCCTTGAGAAACTGCAGCC
CCCTTCTCCAGTGCTCTGGGGGAGGGTGCACCAGGCCTGCCCCACCCTGTGAGAAACTGCACCCCCTTCTCCAGTG
CTCTCGGGGAGGGTGCACCAGGCCCGCCCCACCCTGTGAGAAGCCGCAGCCCGTTCTCCATTGCCATTTGGTCCT
GCCTTCCCCAGAGCTGCTAGCAGCTCGGTCGAGGCAAGAGTGACTGGCTCAGAGAGCGAGCTTTGTGGTATTGAT
AAATGAATAAATTAGTATGTTCATGTTGGAAGTGGCTGGCTCTGCAGAGTGATGGACAGCAGGTGGCATCTTACA
TTGTGATTTGTGGTGCACAGTTAAAACACTTCCCTTCGTTTCAGAAGGAGACAATGTGAATACTTGGAAATTATA
GTGAATAAGATGCCTCCCAAACTTGAGGAAAAGGTCAGATTCTAAGAGCTAAACGTTAAGATGTAATGTTCCAGA
ACAAAGAGGCCCAGAGTCACTGAACGGGGCCCCAGGGCTCCTAGCTTGAGTGTAATCTGAGTCAGCTTATGAAAA
GGCCCCAAAGAAGAAAGTGGAATGTGTGCTGGGCACATGGGACAGCCATGGCACTGAGACTTTGGAAGTGGCCTT
GCCAGCGCTGTCCTGTCTTTCTGGCCCACAGATGAGGGCTCCTGATTGTGGAAGGCCACGGAAGGGACCTGAACA
CGATGGCACGAGACAAGTTATCTCCTGTGACTGCTCCTCTCCAGCAACCCTCAGCTCAGGCTAGACTTTCCCCCT
GTGTTGAGAATGCCCTGCCCTGTGTGGAAGCCTGATGCATTTAGTGACAGTGTGTTAGCTTTGTTAGTTTCTAGT
CTGGCCAGCAGGCTTTCCATGTGATCTGCCATTGGCTTGCTTCAGTGGCCAGTGGAGCCAGGGGTGTCCACCAGA
GTCTTGGACACAGACTTCTGAGGTGGCAGCGGGAGGGAGCCTGCTCCCTGCCACACACGTACAATTTCTAATCCA
TACAGGCCTATGTAGTATATACACACATACGCAGAGCCTTAGGAATTGTGAAAGGCCAATCAAAACTTGGGGCCC
TAATTTCACTCTGCC
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5017/6881
## FIGURE 4631

MVTHAAGARTFCEEQKKGSTYSVPKSKEKLMEKHSQEARQADRESEKPVDSLHPGAGTAKHPPPAASLEEKPDVK
QKSSRKKVVVPQIIITRASNETLVSCSSSGSDQQRTIREPEDWGPYRRHRNPSTADAYNSHLKE

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## FIGURE 4632

AGCGACTCACAAAAGGTCCTCGCGCCAGCGGCGTGCGTCACCATGGCGACCGCGCGCCGCGCAGCCGCGCCCCGC
CCCTCTGGCGGGACCGGCCACCATCCTCTCGCGAGAGCATCCCGTGCGACCGGAAGTGGGGCGGCGACCCCGGAA
GTCCCCGCCGGGTGCAGCTTGGTCGGTTCGATCGCCGCCGGGACCTGACACCGCCCGGAGTTGGCGTCCCTTCTC
CCTCTCCGAGTGCTGCTCCTGTCATTGTGGCCATGGACGTTCACGGCGAAGCAGCTGGAGAAGCTGGCCAAGAAG
GCGGAGAAGGACTCCAAGGCGGAGCAGGCCAAAGTGAAGAAGGCCCTTCTGCAGAAAAATGTAGAGTGTGCCCGT
GTGTATGCCGAGAACGCCATCCGCAAGAAGAACGAAGGTGTGAACTGGCTTCGGATGGCGTCCCGCGTAGACGCA
GTGGCCTCCAAGGTGCAGACAGCTGTGACTATGAAGGGGGTGACCAAGAATATGGCCCAGGTGACCAAAGCCCTG
GACAAGGCCCTGAGCACCATGGACCTGCAGAAGGTCTCCTCAGTGATGGACAGGTTCGAGCAGCAGGTGCAGAAC
CTGGACGTCCATACATCGGTGATGGAGGACTCCATGAGCTCGGCCACCACCCTGACCACGCCGCAGGAGCAGGTG
GACAGCCTCATCATGCAGATCGCCGAGGAGAATGGCCTGGAGGTGCTGGACCAGCTCAGCCAGCTGCCCGAGGGC
GCCTCTGCCGTGGGCGAGAGCTCTGTGCGCAGCCAGGAGGACCAGCTGTCACGGAGGTTGGCCGCCTTGAGGAAC
TAGCCGTGCCCCGCCGGTGTGCACCGCCTCTGCCCCGTGATGTGCTGGAAGGCTCCTGTCCTCTCCCCACCGCGT
CTTGCCTTTGTGCTGACCCCGCGGGGCTGCGGCCGGCAGCCACTCTGCGTCTCTCACCTGCCAGGCCTGCGTGGC
CTTAGGGTTGTTCCTGTTCTTTTAGGTTGGGCGGTGGGTCTGTGTCCTGGTGTTGAGTTTCTGCAAATTTCTGGG
GGTGATTTCTGTGACTCTGGGCCCACAGCGGGGAGGCCAAGAGGGGCCCTGTGGACTTTCACCCAGCACTGTGGG
GGCCTTCAGACTCTGGGGCAGCAGACATGCTGCTTCCCATCAGCCAGAGGGGGTCAGGGCTGCCCTGTTGCCAAA
CAACTCCCTGAGGCCTCTCCGCACCACCTCAGCGGGCAGGAGGTCCCACCATGTGGACAGACATAGCCCAAGGAG
GCACCACAGGTCTATGTGTGCTGGGGGATGTCAGGTGCCACCCAACGCTGTCCTGGTGGTATTTACAATGACATC
CTCCTCCTCCATCACTCCAGGGGTGGTGTCTCGGCCGCCCCTACCAGCTGGCTGAGCCCCCTGGCCTCCTGCGCT
CCCTCACTTCCCTCAGTTCCCAAAGCTGCCCAGTCCATGGGGACAGAACCGTCACTCAGATCCACATTCAAGTGT
GCCCACCCTGCAGTCTTCATCCTCACTCAGCTGCTGCCTCTGGAGGTGCCTTTGGCCACATGTGCTGTGCTGTTT
GTCTCCTCGACAGGGAGCCTGTCCACCAGCAGGCTGCGGTCCCAGCGGGTGCGTCTGCAGCTCCTCCCCTTGGGC
AGCCTGGTTCTCCCGGAGGACCTTTCCTTGGGGCCCTGCTTCATGACGATGCTGCCTGTGTCACCCTCTACCATC
TGTAAACAACTGGGTGCCTTCCCCGACCACACCCCAATGCCTTCCCAGCTTGGAAGCCAAGGCAGCTGATGAAGG
GAGCTCAGGAGAGCCGTCTTCAGCTGGGCTGGGGTTGGGGCTGCTGTGAGGAAAACCTGCCATTGTGGCCCTGGA
GAGTCACCAGCAGCTCTTGGGAAGGACTTGCTGGGAGGCTGAGAGAGGCTTTGGGCACAGCCTGCTGTCTTTTCC
ATTTCCTAAAGTTTACTTCATTGTCTTGAGGCTTCCAGGTTTTGTTTTTGTTTTTGCCAAAGTAGAAAAGGCAGG
TGGTGGGCGGCTGGCAGGGAGTGCGGGTCCCCGCCCCTCTTCAGTCCTGCCCTCCCCTCCTCAGTCCTGCCCACC
CCGTGCAGCCCATGCTGAGGCTGCAGTGGTGTCGTGGGTGTTACGTGCAGGAACGTGGAGACCCTGACGTGGGCT
CACTGCGTTTGGTTTTCTTTTCAGAACTTGGGAGCCCCCAGGGAGGGGCTAGTGTTGGTAGGTCCTAGACGTGGA
TCCCTCCAGCCTCCCCAAAATCAACCCTGGTGTTGAGAGAACGTCCTTCTGTCCATCGTGGGTAACAGCCTTGGG
GAGGGTGCAGAGCTCTGCAGAGCCATGGGCCAGGTGGGGCTGCCTCAGTCCTGTCCCCTTGGGCACTGAGGAGAG
GGGCCCATTCACCTTTCTCCTAGAATGCTGTTGTAAATAAACAAATGGATCCCTGG

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## FIGURE 4633

CTTTCCGCTCGGCTGTTTTCCTGCGCAGGAGCCGCAGGGCCGTAGGCAGCC<u>ATG</u>GCGCCCAGCCGGAATGGCATG
GTCTTGAAGCCCCACTTCCACAAGGACTGGCAGCGGCGCGTGGCCACGTGGTTCAACCAGCCGGCCCGTAAGATC
CGCAGACGTAAGGCCCGGCAAGCCAAGGCGCGCCGCATCGCCCCGCGCCCCGCGTCGGGTCCCATCCGGCCCATC
GTGCGCTGCCCCACGGTTCGGTACCACACGAAGGTGCGCGCCGGCCGCGGCTTCAGCCTGGAGGAGCTCAGGGTG
GCCGGCATTCACAAGAAGGTGGCCCGGACCATCGGCATTTCTGTGGATCCGAGGAGGCGGAACAAGTCCACGGAG
TCCCTGCAGGCCAACGTGCAGCGGCTGAAGGAGTACCGCTCCAAACTCATCCTCTTCCCCAGGAAGCCCTCGGCC
CCCAAGAAGGGAGACAGTTCTGCTGAAGAACTGAAACTGGCCACCCAGCTGACCGGACCGGTCATGCCCGTCCGG
AACGTCTATAAGAAGGAGAAAGCTCGAGTCATCACTGAGGAAGAGAAGAATTTCAAAGCCTTCGCTAGTCTCCGT
ATGGCCCGTGCCAACGCCCGGCTCTTCGGCATACGGGCAAAAAGAGCCAAGGAAGCCGCAGAACAGGATGTTGAA
AAGAAAAAA<u>TAA</u>AGCCCTCCTGGGGACTTGGAATCAGTCGGCAGTCATGCTGGGTCTCCACGTGGTGTGTTTCGT
GGGAACAACTGGGCCTGGGATGGGGCTTCACTGCTGTGACTTCCTCCTGCCAGGGGATTTGGGGCTTTCTTGAAA
GACAGTCCAAGCCCTGGATAATGCTTTACTTTCTGTGTTGAAGCACTGTTGGTTGTTTGGTTAGTGACTGATGTA
AAACGGTTTTCTTGTGGGGAGGTTACAGAGGCTGACTTCAGAGTGGACTTGTGTTTTTTCTTTTTAAAGAGGCAA
GGTTGGGCTGGTGCTCACAGCTGTAATCCCAGCACTTTGAGGTTGGCTGGGAGTTCAAGACCAGCCTGGCCAACA
TGTCAGAACTACTAAAAATAAAGAAATCAGCCATGAAAAAAAAAAAAAAAAAAAAAAAAAA

5020/6881
## FIGURE 4634

MAPSRNGMVLKPHFHKDWQRRVATWFNQPARKIRRRKARQAKARRIAPRPASGPIRPIVRCPTVRYHTKVRAGRG
FSLEELRVAGIHKKVARTIGISVDPRRRNKSTESLQANVQRLKEYRSKLILFPRKPSAPKKGDSSAEELKLATQL
TGPVMPVRNVYKKEKARVITEEEKNFKAFASLRMARANARLFGIRAKRAKEAAEQDVEKKK

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# FIGURE 4635

CTGGGTCCTGGCCTTTGGGCATCATCCAGCGCCATCGGCCTGGCGCTTCAGCCAACGCGGGAGTGGATGGGCCCC
TTCTTCTTCGCAGACAGCGTTCGGCCGCTGCCCGGGCTCTAGGCGCGGCCGGACGGCCCAGTCTGGAGGGTTCGG
GGCGGAGGCCCGGGGGGGTGCGCGCGCCCGGGGTCCGGCCTCTCACTCGCTCCCCTCTCGTCCGCAGCCGCAGGG
CCGTAGGCAGCC**ATG**GCGCCCAGCCGGAATGGCATGGTCTTGAAGCCCCACTTCCACAAGGACTGGCAGCGGCGC
GTGGCCACGTGGTTCAACCAGCCGGCCCGTAAGATCCGCAGACGTAAGGCCCGGCAAGCCAAGGCGCGCCGCATC
GCCCCGCGCCCCGCGTCGGGTCCCATCCGGCCCATCGTGCGCTGCCCCACGGTTCGGTACCACACGAAGGTGCGC
GCCGGCCGCGGCTTCAGCCTGGAGGAGCTCAGGGTGGCCGGCATTCACAAGAAGGTGGCCCGGACCATCGGCATT
TCTGTGGATCCGAGGAGGCGGAACAAGTCCACGGAGTCCCTGCAGGCCAACGTGCAGCGGCTGAAGGAGTACCGC
TCCAAACTCATCCTCTTCCCCAGGAAGCCCTCGGCCCCCAAGAAGGGAGACAGTTCTGCTGAAGAACTGAAACTG
GCCACCCAGCTGACCGGACCGGTCATGCCCGTCCGGAACGTCTATAAGAAGGAGAAAGCTCGAGTCATCACTGAG
GAAGAGAAGAATTTCAAAGCCTTCGCTAGTCTCCGTATGGCCCGTGCCAACGCCCGGCTCTTCGGCATACGGGCA
AAAAGAGCCAAGGAAGCCGCAGAACAGGATGTTGAAAAGAAAAAA**TAA**AGCCCTCCTGGGGACTTGGAATCAGTC
GGCAGTCATGCTGGGTCTCCACGTGGTGTGTTTCGTGGGAACAACTGGGCCTGGGATGGGGCTTCACTGCTGTGA
CTTCCTCCTGCCAGGGGATTTGGGGCTTTCTTGAAAGACAGTCCAAGCCCTGGATAATGCTTTACTTTCTGTGTT
GAAGCACTGTTGGTTGTTTGGTTAGTGACTGATGTAAAACGGTTTTCTTGTGGGGAGGTTACAGAGGCTGACTTC
AGAGTGGACTTGTGTTTTTTCTTTTTAAAGAGGCAAGGTTGGGCTGGTGCTCACAGCTGTAATCCCAGCACTTTG
AGGTTGGCTGGGAGTTCAAGACCAGCCTGGCCAACATGTCAGAACTACTAAAAATAAAGAAATCAGCCATGAAAA
AAAAAAAAAAAAAAAAAAAA

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## FIGURE 4636

MAPSRNGMVLKPHFHKDWQRRVATWFNQPARKIRRRKARQAKARRIAPRPASGPIRPIVRCPTVRYHTKVRAGRG
FSLEELRVAGIHKKVARTIGISVDPRRRNKSTESLQANVQRLKEYRSKLILFPRKPSAPKKGDSSAEELKLATQL
TGPVMPVRNVYKKEKARVITEEEKNFKAFASLRMARANARLFGIRAKRAKEAAEQDVEKKK

# FIGURE 4637

TAGTTTTATCTCTATACCCAAAATGGAGGTTAAAAGTTACACTAAAAATAACACGATTGCACCAAAGAAAGCGTC
CCATCGTATCCTGTCAGACACGTCGGACGAGGAGGACGCGAGTGTCACCGTGGGGACAGGAGAGAAGCTGAGACT
CTCGGCACATACGATATTGCCTGGTAGTAAGACACGAGAGCCTTCTAATGCCAAGCAGCAGAAGGAAAAAAATAA
AGTGAAAAAGAAGCGAAAGAAAGAAACAAAAGGCAGAGAGGTTCGCTTCGGAAAGCGGAGCGACAAGTTCTGCTC
CTCGGAGTCGGAGAGCGAGTCCTCAGAGAGTGGGGAGGATGACAGGGACTCTCTGGGGAGCTCTGGCTGCCTCAA
GGGGTCCCCGCTGGTGCTGAAGGACCCCTCCCTGTTCAGCTCCCTCTCTGCCTCCTCCACCTCGTCTCACGGGAG
CTCTGCCGCCCAGAAGCAGAACCCCAGCCACACAGACCAGCACACCAAGCACTGGCGGACAGACAATTGGAAAAC
CATTCTTCCCCGGCTTGGTCAGAGGTCAGTTCTTTATCAGACTCCACAAGGACGAGACTGACAAGCGAGTCTGA
CTACTCCTCTGAGGGCTCCAGTGTGGAATCGCTGAAGCCAGTGAGGAAGAGGCAGGAGCACAGGAAGCGAGCCTC
CCTGTCGGAGAAGAAGAGCCCCTTCCTGTCCAGCGCGGAGGGCGCTGTCCCCAAACTGGACAAGGAGGGGAAAGT
TGTCAAAAAACATAAAACAAAACACAAACACAAAAACAAGGAGAAGGGACAGTGTTCCATCAGCCAAGAGCTGAA
GTTGAAAAGTTTTACTTACGAATATGAGGACTCCAAGCAGAAGTCAGATAAGGCTATACTGTTAGAGAATGATCT
TTCCACTGAAAACAAGCTAAAAGTGTTAAAGCACGATCGCGACCACTTTAAAAAAGAAGAGAAACTTAGCAAAAT
GAAATTAGAAGAAAAAGAATGGCTCTTTAAAGATGAAAAATCACTGAAGAGAATCAAAGACACAAACAAAGACAT
CAGCAGGTCTTTCCGAGAAGAGAAAGACCGTTCGAATAAAGCAGAAAAGGAGAGATCGCTGAAGGAAAAGTCTCC
GAAAGAAGAAAAACTGAGACTGTACAAAGAGGAGAGAAAGAAGAAATCAAAAGACCGGCCCTCAAAATTAGAGAA
GAAGAATGATTTAAAAGAGGACAAAATTTCAAAAGAGAAGGAGAAGATTTTTAAAGAAGATAAAGAAAAACTCAA
AAAAGAAAAGGTTTATAGGGAAGATTCTGCTTTTGACGAATATTGTAACAAAAATCAGTTTCTGGAGAATGAAGA
CACCAAATTTAGCCTTTCTGACGATCAGCGAGATCGGTGGTTTTCTGACTTGTCCGATTCATCCTTTGATTTCAA
AGGGGAGGACAGCTGGGACTCGCCAGTGACAGACTACAGGGACATGAAGAGCGACTCTGTGGCCAAGCTCATCTT
GGAGACGGTGAAGGAGGACAGCAAGGAGAGGAGGCGGGACAGCCGGGCCCGGGAGAAGCGAGACTACAGAGAGCC
CTTCTTCCGAAAGAAGGACAGGGACTATTTGGATAAAAACTCTGAGAAGAGGAAAGAGCAGACTGAAAAGCATAA
AAGTGTCCCTGGCTACCTTTCGGAAAAGGACAAGAAGAGGAGAGAGTCCGCAGAGGCCGGGCGGGACAGAAAGGA
CGCCCTGGAGAGCTGCAAGGAGCGCAGGGACGGCAGGGCCAAGCCCGAGGAGGCGCACCGGGAGGAGCTGAAGGA
GTGTGGCTGCGAGAGTGGCTTCAAGGACAAGTCCGACGGCGACTTTGGGAAGGGCCTGGAGCCGTGGGAACGGCA
CCACCCAGCACGAGAGAAGGAGAAGAAGGATGGCCCCGATAAGGAAAGGAAGGAGAAGACAAAACCAGAAAGATA
CAAAGAGAAATCCAGTGACAAGGACAAAAGTGAGAAATCAATCCTGGAAAAATGTCAGAAGGACAAAGAATTTGA
TAAATGTTTTAAAGAGAAAAAAGATACCAAGGAAAAACATAAAGACACACATGGCAAAGACAAAGAAAGGAAAGC
GTCTCTCGACCAAGGGAAAGAGAAGAAGGAGAAGGCTTTCCCTGGGATCATCTCAGAAGACTTCTCTGAAAAAAA
AGATGACAAGAAAGGCAAAGAGAAAAGCTGGTACATCGCAGACATCTTCACAGATGAGAGTGAGGACGACAGAGA
CAGCTGCATGGGGAGCGGGTTCAAGATGGGAGAGGCCAGCGACTTGCCGAGGACGGACGGCCTCCAGGAGAAGGA
GGAAGGACGGGAGGCCTATGCCTCCGACAGACACAGGAAGTCTTCTGACAAGCAGCACCCTGAGAGGCAGAAGGA
CAAGGAGCCCAGAGACAGGAGAAAGGACCGAGGGGCTGCCGACGCGGGGAGAGACAAAAAAGAGAAAGTCTTTGA
AAAGCACAAGGAGAAGAAGGATAAAGAGTCCACAGAAAAGTACAAGGACAGGAAGGACAGAGCCTCAGTGGACTC
CACGCAAGATAAGAAAAATAAACAGAAGCTCCCCGAGAAGGCTGAAAAGAAGCACGCTGCCGAAGACAAGGCTAA
AAGCAAACACAAAGAGAAGTCGGACAAAGAACATTCCAAGGAGAGGAAGTCCTCGAGAAGTGCCGACGCGGAAAA
AAGCCTGCTTGAAAAGTTGGAAGAAGAGGCTCTCCATGAGTACAGAGAAGACTCCAACGATAAAATCAGCGAGGT
CTCCTCTGACAGCTTCACGGACCGAGGGCAGGAGCCGGGCTGACTGCCTTCCTGGAGGTCTCTTTCACGGAGCC
ACCTGGAGACGACAAGCCGAGGGAGAGCGCCTGCCTCCCTGAGAAGCTGAAAGAGAAGGAGAGGCACAGACACTC
CTCATCTTCATCCAAGAAGAGCCACGACCGAGAGCGAGCCAAGAAAGAGAAGGCCGAGAAGAAAGAGAAGGGCGA
AGATTACAAGGAGGGCGGTAGCAGGAAGGACTCCGGCCAGTACGAAAAGGACTTCCTGGAGGCGGATGCTTACGG
AGTTCTTACAACATGAAAGCTGACATAGAAGATGAGCTAGATAAAACCATTGAATTGTTTTCTACCGAAAAGAA
AGATAAAAATGATTCCGAGAGAGAACCTTCCAAG

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# FIGURE 4638

ACTTGCGCTGTCACTCAGCCTGGACGCGCTTCTTCGGGTCGCGGGTGCACTCCGGCCCGGCTCCCGCCTCGGCCC
CGATGGACGCCGCGTTCCTCCTCGTCCTCGGGCTGTTGGCCCAGAGCCTCTGCCTGTCTTTGGGGGTTCCTGGAT
GGAGGAGGCCCACCACCCTGTACCCCTGGCGCCGGGCGCCTGCCCTGAGCCGCGTGCGGAGGGCCTGGGTCATCC
CCCCGATCAGCGTATCCGAGAACCACAAGCGTCTCCCCTACCCCCTGGTTCAGATCAAGTCGGACAAGCAGCAGC
TGGGCAGCGTCATCTACAGCATCCAGGGACCCGGCGTGGATGAGGAGCCCCGGGGCGTCTTCTCTATCGACAAGT
TCACAGGGAAGGTCTTCCTCAATGCCATGCTGGACCGCGAGAAGACTGATCGCTTCAGGCTAAGAGCGTTTGCCC
TGGACCTGGGAGGATCCACCCTGGAGGACCCCACGGACCTGGAGATTGTAGTTGTGGATCAGAATGACAACCGGC
CAGCCTTCCTGCAGGAGGCGTTCACTGGCCGCGTGCTGGAGGGTGCAGTCCCAGGCACCTATGTGACCAGGGCAG
AGGCCACAGATGCCGACGACCCCGAGACGGACAACGCAGCGCTGCGGTTCTCCATCCTGCAGCAGGGCAGCCCCG
AGCTCTTCAGCATCGACGAGCTCACAGGAGAGATCCGCACAGTGCAAGTGGGGCTGGACCGCGAGGTGGTCGCGG
TGTACAATCTGACCCTGCAGGTGGCGGACATGTCTGGAGACGGCCTCACAGCCACTGCCTCAGCCATCATCACCC
TTGATGACATCAATGACAATGCCCCCGAGTTCACCAGGGATGAGTTCTTCATGGAGGCCATAGAGGCCGTCAGCG
GAGTGGATGTGGGACGCCTGGAAGTGGAGGACAGGGACCTGCCAGGCTCCCCAAACTGGGTGGCCAGGTTCACCA
TCCTGGAAGGCGACCCCGATGGGCAGTTCACCATCCGCACGGACCCCAAGACCAACGAGGGTGTTCTGTCCATTG
TGAAGGCCCTGGACTATGAGAGCTGTGAACACTACGAACTCAAAGTGTCGGTGCAGAATGAGGCCCCGCTGCAGG
CGGCTGCCCTTAGGGCTGAGCGGGGCCAGGCCAAGGTCCGCGTGCATGTGCAGGACACCAACGAGCCCCCCGTGT
TCCAGGAGAACCCACTTCGGACCAGCCTAGCAGAGGGGGCACCCCCAGGCACTCTGGTGGCCACCTTCTCTGCCC
GGGACCCTGACACAGAGCAGCTGCAGAGGCTCAGCTACTCCAAGGACTACGACCCGGAAGACTGGCTGCAAGTGG
ACGCAGCCACTGGCCGGATCCAGACCCAGCACGTGCTCAGCCCGGCGTCCCCCTTCCTCAAGGGCGGCTGGTACA
GAGCCATCGTCCTGGCCCAGGATGACGCCTCCCAGCCCCGCACCGCCACCGGCACCCTGTCCATCGAGATCCTGG
AGGTGAACGACCATGCACCTGTGCTGGCCCCGCCGCCGCCGGGCAGCCTGTGCAGCGAGCCACACCAAGGCCCAG
GCCTCCTCCTGGGCGCCACGGATGAGGACCTGCCCCCCCCACGGGGCCCCCTTCCACTTCCAGCTGAGCCCCAGGC
TCCCAGAGCTCGGCCGGAACTGGAGCCTCAGCCAGGTCAACGTGAGCCACGCGCGCCTGCGGCCGCGACACCAGG
TCCCCGAAGGCCTGCACCGCCTCAGCCTGCTGCTCCGGGACTCGGGGCAGCCGCCCCAGCAGCGCGAGCAGCCTC
TGAACGTGACCGTGTGCCGCTGCGGCAAGGACGGCGTCTGCCTGCCGGGGGCCGCAGCGCTGCTGGCGGGGGGCA
CAGGCCTCAGCCTGGGCGCACTGGTCATCGTGCTGGCCAGCGCCCTCCTGCTGCTGGTGCTGGTCCTGCTCGTGG
CACTCCGGGCGCGGTTCTGGAAGCAGTCTCGGGGCAAGGGGCTGCTGCACGGCCCCCAGGACGACCTTCGAGACA
ATGTCCTCAACTACGATGAGCAAGGAGGCGGGGAGGAGGACCAGGACGCCTACGACATCAGCCAGCTGCGTCACC
CGACAGCGCTGAGCCTGCCTCTGGGACCGCCGCCACTTCGCAGAGATGCCCCGCAGGGCCGCCTGCACCCCCAGC
CACCCCGAGTGCTGCCCACCAGCCCCCTGGACATCGCCGACTTCATCAATGATGGCTTGGAGGCTGCAGATAGTG
ACCCCAGTGTGCCGCCTTACGACACAGCCCTCATCTATGACTACGAGGGTGACGGCTCGGTGGCGGGGACGCTGA
GCTCCATCCTGTCCAGCCAGGGCGATGAGGACCAGGACTACGACTACCTCAGAGACTGGGGGCCCCGCTTCGCCC
GGCTGGCAGACATGTATGGGCACCCGTGCGGGTTGGAGTACGGGGCCAGATGGGACCACCAGGCCAGGGAGGGTC
TTTCTCCTGGGGCACTGCTACCCAGACACAGAGGCCGGACAGCCTGACCCTGGGGCGCAACTGGACATGCCACTC
CCCGGCCTCGTGGCAGTGATGGCCCCTGCAGAGGCAGCCTGAGGTCACCGGGCCCGACCCCCCTGGGCCTGGGGC
AGCCTCCTTCCTGTAGGCGAGGGCCCAAGTCTGGGGGCAGAACCTGAGTGTGGATGGGGCGGCCAGGAAGAGGCC
CCTTCCTGCCGGGGTGGGAAGAGTTTCTCTCCATCGGCCCCATGCGGGTCACCTCCCTAGTCCCACCTTTGCCTC
CTACCAGTGAACCTCATCTTTGTATGAAAGACAGCAACCTCCTGGGTAAATCTGAATGAAAAACGTGCTAGTCTC
TTTCATGCAAAAAAAAAAAAAAAAAA

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## FIGURE 4639

MDAAFLLVLGLLAQSLCLSLGVPGWRRPTTLYPWRRAPALSRVRRAWVIPPISVSENHKRLPYPLVQIKSDKQQL
GSVIYSIQGPGVDEEPRGVFSIDKFTGKVFLNAMLDREKTDRFRLRAFALDLGGSTLEDPTDLEIVVVDQNDNRP
AFLQEAFTGRVLEGAVPGTYVTRAEATDADDPETDNAALRFSILQQGSPELFSIDELTGEIRTVQVGLDREVVAV
YNLTLQVADMSGDGLTATASAIITLDDINDNAPEFTRDEFFMEAIEAVSGVDVGRLEVEDRDLPGSPNWVARFTI
LEGDPDGQFTIRTDPKTNEGVLSIVKALDYESCEHYELKVSVQNEAPLQAAALRAERGQAKVRVHVQDTNEPPVF
QENPLRTSLAEGAPPGTLVATFSARDPDTEQLQRLSYSKDYDPEDWLQVDAATGRIQTQHVLSPASPFLKGGWYR
AIVLAQDDASQPRTATGTLSIEILEVNDHAPVLAPPPPGSLCSEPHQGPGLLLGATDEDLPPHGAPFHFQLSPRL
PELGRNWSLSQVNVSHARLRPRHQVPEGLHRLSLLLRDSGQPPQQREQPLNVTVCRCGKDGVCLPGAAALLAGGT
GLSLGALVIVLASALLLLVLVLLVALRARFWKQSRGKGLLHGPQDDLRDNVLNYDEQGGGEEDQDAYDISQLRHP
TALSLPLGPPPLRRDAPQGRLHPQPPRVLPTSPLDIADFINDGLEAADSDPSVPPYDTALIYDYEGDGSVAGTLS
SILSSQGDEDQDYDYLRDWGPRFARLADMYGHPCGLEYGARWDHQAREGLSPGALLPRHRGRTA

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# FIGURE 4640

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AGTTCTGTGGAGCAGCGGTGGCCGGCTAGGATGGGCTGTCTCTGGGGTCTGGCTCTGCCCCTTTTCTTCTTCTGC
TGGGAGGTTGGGGTCTCTGGGAGCTCTGCAGGCCCCAGCACCCGCAGAGCAGACACTGCGATGACAACGGACGAC
ACAGAAGTGCCCGCTATGACTCTAGCACCGGGCCACGCCGCTCTGGAAACTCAAACGCTGAGCGCTGAGACCTCT
TCTAGGGCCTCAACCCCAGCCGGCCCCATTCCAGAAGCAGAGACCAGGGGAGCCAAGAGAATTTCCCCTGCAAGA
GAGACCAGGAGTTTCACAAAAACATCTCCCAACTTCATGGTGCTGATCGCCACCTCCGTGGAGACATCAGCCGCC
AGTGGCAGCCCCGAGGGAGCTGGAATGACCACAGTTCAGACCATCACAGGCAGTGATCCCGAGGAAGCCATCTTT
GACACCCTTTGCACCGATGACAGCTCTGAAGAGGCAAAGACACTCACAATGGACATATTGACATTGGCTCACACC
TCCACAGAAGCTAAGGGCCTGTCCTCAGAGAGCAGTGCCTCTTCCGACGGCCCCCATCCAGTCATCACCCCGTCA
CGGGCCTCAGAGAGCAGCGCCTCTTCCGACGGCCCCCATCCAGTCATCACCCCGTCACGGGCCTCAGAGAGCAGC
GCCTCTTCCGACGGCCCCCATCCAGTCATCACCCCGTCATGGTCCCCGGGATCTGATGTCACTCTCCTCGCTGAA
GCCCTGGTGACTGTCACAAACATCGAGGTTATTAATTGCAGCATCACAGAAATAGAAACAACAACTTCCAGCATC
CCTGGGGCCTCAGACATAGATCTCATCCCCACGGAAGGGGTGAAGGCCTCGTCCACCTCCGATCCACCAGCTCTG
CCTGACTCCACTGAAGCAAAACCACACATCACTGAGGTCACAGCCTCTGCCGAGACCCTGTCCTCAGCCCTCTCT
GTTGAGACACCAAGTTACGTCAAAGTCTCAGGAGCAGCTCCGGTCTCCATAGAGGCTGGGTCAGCAGTGGGCAAA
ACAACTTCCTTTGCTGGGAGCTCTGCTTCCTCCTACAGCCCCTCGGAAGCCGCCCTCAAGAACTTCACCCCTTCA
GAGACACCGACCATGGACATCGCAACCAAGGGGCCCTTCCCCACCAGCAGGGACCCTCTTCCTTCTGTCCCTCCG
ACTACAACCAACAGCAGCCGAGGGACGAACAGCACCTTAGCCAAGATCACAACCTCAGCGAAGACCACGATGAAG
CCCCCAACAGCCACGCCCACGACTGCCCGGATCGAGGCCGACCACAGACGTGAGTGCAGGTGAAAATGGAGGTTT
CCTCCTCCTGCGGCTGAGTGTGGCTTCCCCGGAAGACCTCACTGACCCCAGAGTGGCAGAAAGGCTGATGCAGCA
GCTCCACCGGGAACTCCACGCCCACGCGCCTCACTTCCAGGTCTCCTTACTGCGTGTCAGGAGAGGCTAACGGAC
ATCAGCTGCAGCCAGGCATGTCCCGTATGCCAAAAGAGGGTGCTGCCCCTAGCCTGGGCCCCCACCGACAGACTG
CAGCTGCGTTACTGTGCTGAGAGGTACCCAGAAGGTTCCCATGAAGGGCAGCATGTCCAAGCCCCTAACCCCAGA
TGTGGCAACAGGACCCTCGCTCACATCCACCGGAGTGTATGTATGGGGAGGGGCTTCACCTGTTCCCAGAGGTGT
CCTTGGACTCACCTTGGCACATGTTCTGTGTTTCAGTAAAGAGAGACCTGATCACCCATCTGTGTGCTTCCATCC
TGCATTAAAATTCACTCAGTGTGGCCCAG
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5027/6881
# FIGURE 4641

CAGAGGCTGGGAGGCGGCAGAATGCAGCCAGAGGAGGGCACAGGCTGGCTGCTGGAGCTGCTGTCCGAGGTGCAG
CTGCAACAGTACTTCCTGCGGCTCCGAGATGACCTCAACGTCACCCGCCTGTCCCACTTTGAGTACGTCAAGAAT
GAGGACCTGGAGAAGATCGGCATGGGTCGGCCTGGCCAGCGGCGGCTGTGGGAGGCTGTGAAGAGGAGGAAGGCC
TTGTGCAAACGCAAGTCGTGGATGAGTAAGXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXGTGAGTGTGGCTGTGAAGTGCCTGAAGCCCGATGTCCTGAGCCAGCCA
GAAGCCATGGACGACTTCATCCGGGAGGTCAATGCCATGCACTCGCTCGACCACCGAAACCTCATCCGCCTCTAC
GGGGTGGTGCTCACGCCGCCCATGAAGATGGTGACAGAGCTGGCACCTCTGGGATCGTTGTTGGACCGGCTACGT
AAGCACCAGGGCCACTTCCTCCTGGGGACTCTGAGCCGCTACGCTGTGCAGGTGGCTGAGGGCATGGGCTACCTG
GAGTCCAAGCGCTTTATTCACCGTGACCTGGCTGCCCGCAATCTGCTGTTGGCTACCCGCGACCTGGTCAAGATC
GGGGACTTTGGGCTGATGCGAGCACTACCTCAGAATGACGACCATTACGTCATGCAGGAACATCGCAAGGTGCCC
TTCGCCTGGTGTGCCCCCGAGAGCCTGAAGACACGCACCTTCTCCCATGCCAGCGACACCTGGATGTTCGGGGGTG
ACACTGTGGGAAATGTTCACCTACGGCCAGGAGCCCTGGATCGGCCTCAACGGCAGTCAGATCCTGCATAAGATC
GACAAGGAGGGGGAGCGGCTGCCCCGGCCCGAGGACTGTCCCCAGGACATCTACAACGTCATGGTCCAGTGCTGG
GCTCACAAGCCAGAGGACAGACCCACGTTTGTGGCCCTGCGGGACTTCCTGCTGGAGGCCCAGCCCACAGACATG
CGGGCCCTTCAGGACTTTGAGGAACCGGACAAGCTGCACATCCAGATGAATGATGTCATCACCGTCATCGAGGGA
AGGGCCGAGAACTACTGGTGGCGTGGCCAGAACACACGGACGCTGTGTGTGGGGCCCTTCCCTCGCAACGTGGTG
ACCTCCGTGGCCGGCCTGTCGGCCCAGGACATCAGCCAGCCCCTGCAGAACAGCTTCATCCACACAGGGCATGGC
GACAGTGACCCCCGCCACTGCTGGGGCTTCCCGGACAGGATTGACGAACTGTATCTGGGAAACCCCATGGACCCC
CCCGACCTCCTGAGCGTGGAACTGAGCACCTCCCGGCCCCCCCAGCATCTAGGAGGGGTGAAAAAACCAACCTAT
GACCCTGTGAGCGAGGACCAAGACCCCTTGTCCAGCGACTTCAAGAGGCTGGGCCTGCGGAAGCCAGGCCTGCCC
CGAGGGCTGTGGCTGGCGAAGCCCTCGGCGCGGGTGCCGGGCACCAAGGCCAGCCGAGGCAGCGGGGCTGAGGTC
ACGCTCATCGACTTCGGTGAGGAGCCCGTGGTCCCGGCCCTACGGCCCTGCGCGCCCTCCCTGGCGCAGCTGGCC
ATGGACGCCTGCTCCCTGCTGGACGAGACCCCGCCTCAGAGCCCCACGCGGGCACTGCCCCGGCCCCTGCACCCC
ACGCCTGTGGTGGACTGGGACGCACGCCCGCTGCCCCCCCGCCCGCCTATGACGACGTGGCCCAGGATGAGGAT
GACTTTGAGATCTGCTCCATCAACAGCACCCTCGTGGGCGCGGGGGTCCCTGCCGGGCCCAGCCAGGGCCAGACC
AACTACGCCTTTGTGCCTGAGCAGGCGCGGCCGCCCCCTCCCCTGGAGGACAACCTGTTCCTCCCGCCCCAGGGT
GGGGGCAAGCCGCCCAGCTCCGCACAGACCGCAGAGATCTTCCAGGCGCTACAGCAGGAGTGCATGAGGCAACTG
CAGGCTCCGGCCGGCTCCCCGGCCCCCTCTCCCAGCCCGGGGGGTGACGACAAGCCCCAGGTGCCTCCTCGGGTA
CCCATCCCCCCTCGGCCCACGCGCCCACACGTCCAGCTGTCTCCAGCCCCCCGGGCGAGGAGGAGACCAGCCAG
TGGCCTGGACCTGCTTCCCCTCCCCGGGTGCCTCCGCGGGAGCCCCTGTCCCCTCAAGGCTCGAGGACACCCAGC
CCCCTGGTACCACCTGGCAGCTCCCCGCTGCCACCCCGGCTCTCAAGCTCACCTGGGAAGACCATGCCCACCACC
CAGAGCTTTGCCTCAGACCCCAAGTACGCCACCCCCCAGGTGATCCAGGCCCCTGGCCCGCGGGCTGGTCCCTGC
ATCCTTGCCCATCGTCCTGGGATTGTGCAÄGAAGGTCAGCAGCACCCACTATTACTTGCTTGCCCGAGCGACCA
TCCTACCTGGAGCTGCTACCAGCGCTTCCTGCGTGAGTGCCAGAGCCCCGATGAGCCTACC

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## FIGURE 4642

GCGGAGCGAGAGGCTGAGAGAGTCGGAGACACTATCCGCTTCCATCCGTCGCGCAGACCCTGCCGGAGCCGCTGC
CGCTATGGATGATCGAGAGGATCTGGTGTACCAGGCGAAGCTGGCCGAGCAGGCTGAGCGATACGACGAAATGGT
GGAGTCAATGAAGAAAGTAGCAGGGATGGATGTGGAGCTGACAGTTGAAGAAAGAAACCTCCTATCTGTTGCATA
TAAGAATGTGATTGGAGCTAGAAGAGCCTCCTGGAGAATAATCAGCAGCATTGAACAGAAAGAAGAAAACAAGGG
AGGAGAAGACAAGCTAAAAATGATTCGGGAATATCGGCAAATGGTTGAGACTGAGCTAAAGTTAATCTGTTGTGA
CATTCTGGATGTACTGGACAAACACCTCATTCCAGCAGCTAACACTGGCGAGTCCAAGGTTTTCTATTATAAAAT
GAAAGGGGACTACCACAGGTATCTGGCAGAATTTGCCACAGGAAACGACAGGAAGGAGGCTGCGGAGAACAGCCT
AGTGGCTTATAAAGCTGCTAGTGATATTGCAATGACAGAACTTCCACCAACGCATCCTATTCGCTTAGGTCTTGC
TCTCAATTTTTCCGTATTCTACTACGAAATTCTTAATTCCCCTGACCGTGCCTGCAGGTTGGCAAAAGCAGCTTT
TGATGATGCAATTGCAGAACTGGATACGCTGAGTGAAGAAAGCTATAAGGACTCTACACTTATCATGCAGTTGTT
ACGTGATAATCTGACACTATGGACTTCAGACATGCAGGGTGACGGTGAAGAGCAGAATAAAGAAGCGCTGCAGGA
CGTGGAAGACGAAAATCAGTGAGACATAAGCCAACAAGAGAAACCATCTCTGACCACCCCCTCCTCCCCATCCCA
CCCTTTGGAAACTCCCCATTGTCACTGAGAACCACCAAATCTGACTTTTACATTTGGTCTCAGAATTTAGGTTCC
TGCCCTGTTGGTTTTTTTTTTTTTTTTTTTTAAACAGTTTTCAAAAGTTCTTAAAGGCAAGAGTGAATTTCTGTG
GATTTTACTGGTCCCAGCTTTTAGGTTCTTTAAGACACTAACAGGACTACATAGAGGCTTTTTCAGCATTACTGT
GTCGTCTCCGTGCCAGATGTGGCAAGATCACCATTAGCAAATGGAAATTACATTTGAAAGCCATTAGACTTATAG
GTGATGCAAGCATCTAAGAGAGAGGTTAATCACACTATAGAGGCATAAGTGGTATCAGTTTTCATTTTTCTAATT
GTTTAAACTGTGTTTTATACCAGTGTTTGCAAGTAATTGGGTGTTAGCTTGAGATGGTTAAAGGTGGTTTGGGGA
GGGACTTCGTTGTAATGGTTTTGCTGTAAAAAATGTTTCCAACTCCGCTGAAATGTTGCTGAAAGCATGGTGCT
GGTAACAGTTCAACAATCCGTGGCTGCTCATTCTTGCCTACTTTACTCTCCCACTGAAGCAGGTTAGCGTTGAAG
GTGGTATGGAAAAGCCTGCATGCCTGTTCAATTCTTTTGTTCTTCTCCTTCCCCCTCCCCCTACCTCCTTCCCC
TCACTCCTCCCCTCCTTCGCTCGCTCAACCTCTTTTGTTCAGTATGTGTAACTTGAAGCTAATTTGTACTACTGG
ATATCTGACTGGAGCCACAGATACAGAATCTGTATTGTTCTTACTGAAACACAGCATGGAATTAACATTAAACTT
AAATAAAACAAACCTAAATTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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# FIGURE 4643

MDDREDLVYQAKLAEQAERYDEMVESMKKVAGMDVELTVEERNLLSVAYKNVIGARRASWRIISSIEQKEENKGG
EDKLKMIREYRQMVETELKLICCDILDVLDKHLIPAANTGESKVFYYKMKGDYHRYLAEFATGNDRKEAAENSLV
AYKAASDIAMTELPPTHPIRLGLALNFSVFYYEILNSPDRACRLAKAAFDDAIAELDTLSEESYKDSTLIMQLLR
DNLTLWTSDMQGDGEEQNKEALQDVEDENQ

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# FIGURE 4644A

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CTCGCCCCTCCGCGCTCGCAACTTCGGCCTCCCCCGGCTCCCGCCCGCTCTCCCTCCTTTGTTGCGCGATGAGGG
TCGGGTTTCGGATCTGACCGAGCCGCCGCCGCGGGATGGAGCCGCTCAGCCACCGGGGCCTGCCGCGCCTGTCCT
GGATCGACACCCTCTACAGCAACTTCAGCTACGGGACGGACGAGTACGACGGAGAGGGGAATGAGGAGCAGAAGG
GGCCCCCGGAGGGCTCAGAGACCATGCCGTACATCGATGAGTCGCCCACCATGTCCCCGCAGCTCAGCGCCCGCA
GCCAGGGCGGGGGGGATGGCGTCTCCCCGACTCCACCTGAGGGACTGGCTCCTGGGGTGGAAGCAGGGAAAGGCC
TGGAGATGAGGAAGCTGGTTCTCTCGGGGTTCTTGGCCAGCGAAGAGATCTACATTAACCAGCTGGAAGCCCTGT
TGCTGCCCATGAAACCCCTGAAGGCCACCGCCACCACCTCCCAGCCCGTGCTCACCATCCAGCAGATCGAGACCA
TCTTCTACAAGATCCAGGACATCTATGAGATCCACAAGGAGTTCTATGACAACCTGTGCCCCAAGGTGCAACAGT
GGGACAGCCAGGTCACCATGGGCCACCTCTTCCAGAAGCTGGCCAGCCAGCTCGGTGTGTACAAAGCGTTTGTCG
ATAACTATAAAGTCGCTCTGGAGACAGCTGAGAAGTGCAGCCAGTCCAACAACCAGTTCCAGAAGATCTCAGAGG
AACTCAAAGTGAAAGGTCCCAAGGACTCCAAGGACAGCCACACGTCTGTCACCATGGAAGCTCTGCTCTACAAGC
CCATTGACCGGGTCACTCGGAGCACCCTAGTCCTACACGACCTGCTGAAGCACACACCTGTGGACCACCCCGACT
ACCCGCTGCTGCAGGATGCCCTCCGCATCTCCCAGAACTTCCTGTCCAGCATCAACGAGGACATCGACCCCCGCC
GGACTGCAGTGACAACGCCCAAGGGGGAGACGCGACAGCTGGTGAAGGACGGCTTCCTGGTGGAAGTGTCAGAGG
CCTCCCGGAAGCTGCGGCACGTCTTCCTCTTTACAGATGTCCTACTGTGTGCCAAGCTGAAGAAGACCTCTGCAG
GGAAGCACCAGCAGTATGACTGTAAGTGGTACATCCCCCTGGCCGACCTGGTGTTTCCATCCCCCGAGGAATCTG
AGGCCAGCCCCCAGGTGCACCCCTTCCCAGACCATGAGCTGGAGGACATGAAGATGAAGATCTCTGCCCTCAAGA
GTGAAATCCAGAAGGAGAAAGCCAACAAAGGCCAGAGCCGGGCCATCGAGCGCCTGAAGAAGAAGATGTTTGAGA
ATGAGTTCCTGCTGCTGCTCAACTCCCCCACAATCCCGTTCAGGATCCACAATCGGAATGGAAAGAGTTACCTGT
TCCTACTGTCCTCGGACTACGAGAGGTCAGAGTGGAGAGAAGCAATTCAGAAACTACAGAAGAAGGATCTCCAGG
CCTTTGTCCTGAGCTCAGTGGAGCTCCAGGTGCTCACAGGATCCTGTTTCAAGCTTAGGACTGTACACAACATTC
CTGTCACCAGCAATAAAGACGACGATGAGTCTCCAGGACTCTATGGCTTCCTTCATGTCATCGTCCACTCTGCCA
AGGGATTTAAGCAATCAGCCAACCTGTACTGTACCCTGGAGGTGGATTCCTTCGGCTATTTTGTCAGCAAAGCCA
AAACCAGGGTGTTCCGGGACACAGCGGAGCCCAAGTGGGATGAGGAGTTTGAGATCGAGCTGGAGGGCTCCCAGT
CCCTGAGGATCCTGTGCTATGAGAAGTGCTATGACAAGACCAAGGTCAACAAGGACAACAATGAGATCGTGGACA
AGATCATGGGCAAAGGACAGATCCAGCTGGACCCACAAACCGTGGAGACCAAGAACTGGCACACGGACGTGATTG
AGATGAACGGGATCAAAGTGGAATTTTCCATGAAATTCACCAGCCGAGATATGAGCCTGAAGAGGACCCCGTCCA
AAAAGCAGACCGGCGTCTTCGGTGTGAAGATCAGCGTGGTGACGAAGCGGGAGCGCTCCAAGGTGCCCTACATCG
TCCGGCAGTGTGTGGAGGAGGTGGAGAAGAGGGGTATCGAGGAGGTTGGCATCTACAGGATATCGGGCGTGGCCA
CGGACATCCAGGCGCTCAAGGCCGTCTTCGATGCCAATAACAAGGACATCCTGCTGATGCTGAGTGACATGGACA
TCAACGCCATCGCCGGGACGCTCAAGCTGTACTTCCGGGAACTGCCCGAGCCGCTCCTCACGGACCGACTCTACC
CAGCCTTCATGGAGGGCATCGCCCTGTCAGACCCTGCTGCCAAGGAAAACTGCATGATGCACCTGCTCCGCTCCC
TGCCCGACCCCAACCTCATCACCTTCCTCTTCCTGCTGGAACACTTGAAAAGGGTTGCCGAGAAGGAGCCCATCA
ACAAAATGTCACTTCACAACCTGGCTACCGTGTTTGGACCCACGTTACTGAGACCCTCAGAAGTGGAGAGCAAAG
CACACCTCACCTCGGCTGCGGACATCTGGTCCCATGACGTCATGGCGCAGGTCCAGGTCCTCCTCTACTACCTGC
AGCACCCCCCCATTTCCTTCGCAGAACTCAAGCGGAACACACTGTACTTCTCCACCGACGTGTAGCCCGAGGCAG
GGTGGCTGCGGGCGGGTGGTGGAACCAGCCCCTCCAGCCTGGGGTCCAACTCAGACTTGAAAGACTGCAATAGAA
AACTCCCAAACCCAGCACTCCAGACTCGAGGGAAGCCAGCTTCCAAGAACTGGAATGCGTACGTCTTTTGTGCCA
CCTTGTACAAAGCCGGCTGCCCAGCCCCAGCCTCACCACCGCATCCCACCTCCTGCCCTCCATACCTCTAGTTGT
GTCTGATGCTCCGTGCTGTTCGGGAATTGTTTTATGTACACTTGTCAGGCAGAAAAGGTAGTGACCGGCCCGGCG
TGGGCACACAGACAGCCCGCTTTGTTCTTTCATTTCCTCCAGCACTTTCTTTCCGCCTGAGTCCAGCCCAAGGCC
TTTTATTTTGCGCTGTGTAACTGCTGCCAGCTTCTCTTGGCCCTGCTCCCAGATGGCGGTCTCCTGGCAGCCTCC
CCTCAGTCTTCCTCCACCCGCTCTTCCTTCCCAGCCTGCCTGCATGCATGTGCACCCTTGGTCTTCGCTCCATCG
CCTTGAAAGCTCTGAAGAGGCCCTGGGTTGCCGCGGCAGCAGTGGTCTGTTTGATGCTGCCGTTTGCCGCTGCCG
GCCCCTCCTCAGACTCCGCCTTTGGGAGCACACCTGCTTTGCCTTGCTGCCTGTGCAAATGTTGGACAAGCAGAC
ACACTCACACTCGTCCCCAGCTTAGCACAGAGCTGGAGCGCCCATTTCTGGAATTTTCCGTTTGGGAATCTCCAC
TTCTGGGGTTTACCTGTTCGGCCTCCTGCCTATCAGTGAGGCATCTCTGACTGTTTCTTCTACTGCTTTTCAGTT
CCCTTCCCTGCTGTTCTATTTCCTTTGAGTGTAAAGACTCACAGGTGACCTGCTATCGAGATAGCCAGAGGGTCA
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# FIGURE 4644B

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GGAGAGAATGGGGGAGGAGGCGGTCAGGCTGCTGAGGAAACACCACAGGCTGAACGGGGGAGGAATGCACATGCC
ACGCTGGGTGTCCCGGGTCGCGGGGAGGCAGCTCAGCTCTTAGGAGCAAGTTGTGGGGGCTTTTCAAGAGGGGCC
AGGCTTCCTGGAGGGTGACTGATGTGGCCGAAGCAGGTGTCCAGGCAGGTAGGCTGCAGCCAGGAGCTCCCTGGC
ACCGCAGGACCTCGTGGTACTCTTGCCTTAGATTTTACACACACTCCACAGCCAAGCACTGCCACGGTCCTCCAG
GACCTGGGAAGCAAAGGCACAGGCCCACGGTGGCCAGCCATTGTGGTGCTGCCCCAGCTTCTGGATACAGCCTTT
TGGGTAAACACTGGGAACTCCAGAAGTTGTGGGGAGAGTGGGGAATCAGACAGCCGCCTCTAGGGGCTGGGTTCT
GCTGGGGCCTCCTTGTTGGTGCTGTAGGCACCCGCCAGGGAGCAGGGACCCGACTTGCAGACGCATTGCCCGGTA
CTAGGAAGGAGTGAGGTGTGTTCCCACCGTACACTTCCCACACGAGCTGCGGCTGCCAGCCTCGGGCCATCAGCC
TAGGAGAGCAGATGCAGCTCCAGGGGCTCGACTTATAGCCAGTTACAGCTCCCCGGCTCTTCTGTGTGGCAGAGC
GTCGTTTCCGGGCCCTCAGGGCTGGGGAGCTCAGTTCCCATTGCTTGTGCTCAGGGCTGAGTCTTAAAGAAGGGT
TTGCCGGCCCTAACGCTGCAGCGCGTGCGCGGAGAGAGGCCCTTTTTGAGCCTGTTTACTCCTGTGGCCTTGGGC
AGAACAGTAAATACTCTGTGCACGGAGGAAAGACATGCCCAAGAGGAAGGAAGTACTGACCATCGGCTGCCTGTG
AGCAGCTTAGCAAGGAGCCCTTGCTCCCTGGGAAAGGCGGTGAACTTGAGTCTAAAGATGCAGTGCCTGGCCCTT
CCTAAGGTCCCTGCCTGGCATCCGAGTGTCGGTGTGTGGCACAGAAGGCTCCTGCTTGCTTCCAAAGTGATGGAC
AGGAAGGGGCAGAGTGAGTCACGGCCCAGACTGGGCACCTTCGCGTCTCAGCCTCAGGGAGCCCCACAGCCCCAA
GCTCGCTGAGGCAACGTGAGAACAGGCTATGGGAAGGCTGCAAAGGCTGAGAAATGCAAAGGCTCATATTTATAA
ATCCCACCCCCAGAGTGGGGAGGGTCAGGTGCCAGACCTGGACTAAACTGCACCAAGGAAACACCCAGCAGGGTC
TCCTGTGAGCCGGGGACCATGCAGCCCGAAACCTCCAGTCACTGCGCCCGGCAGGAGTCAGGAGCCAGGGACTGT
GCAGCCTGGAACCTCCAGTCACTGTGCCCAGCAGGGTGGGCTGTGCCCAGCAGGAGTCAGGCTAAGAAACGCCAG
GTCTGCCTGTTCTTGCTGGGCAATGGCTGATGGCTGCCAGTTTCTGCTGATACACAGGTAGGATGGGACCCTTCA
TGAATATCTGACTTTAATAAGTTGGTAAGGATATATTTTTTGTCTATGTTCTGTTTCAACTTATGTAGATTATT
ATAAATTGATGTAAACCACGTGAGAGGAAAATGTTAATAAAAAATGCAAAGCCCCATCATTTGCACAAAACTC
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# FIGURE 4645

GGGACCGAAACCCTTCAGGGAAGTCATTGCAGGGCCCTTGCTTAGAAACAATGGGCAGTCTCTGGAGAGCAGCAG
CCTGGAGGGGTCTCACGTGGGCGTCTATTTCTCCGCACATTGGTGTCCGCCCTGCCGAAGCCTCACCCGGGTCCT
GGTGGAATCCTACCGGAAGATCAAGGAGGCAGGCCAGAACTTCGAGATCATCTTCGTTAGTGCAGACAGGTCGGA
GGAGTCCTTCAAACAGTACTTCAGTGAGATGCCCTGGCTCGCCGTCCCCTACACGGATGAGGCCCGGCGGTCGCG
CCTCAACCGGCTGTACGGAATCCAAGGCATCCCCACGCTCATCATGCTGGACCCGCAGGGCGAGGTGATCACGCG
GCAGGGGCGGGTGGAGGTGCTGAACGACGAGGACTGCCGGGAGTTCCCCTGGCACCCCAAGCCCGTGCTGGAGCT
CTCCGACTCCAACGCCGCGCAGCTTAACGAGGGCCCCTGCCTCGTCCTTTTTGTAGATTCTGAGGATGACGGAGA
GTCCGAGGCGGCCAAGCAGCTGATTCAGCCGATAGCTGAGAAAATCATTGCCAAGTACAAAGCCAAAGAGGAGGA
GGCACCCCTTCTGTTCTTCGTAGCCGGGGAGGATGACATGACTGACTCCCTGCGAGATTACACCAACCTGCCTGA
GGCTGCCCCTTTGCTCACCATCCTGGACATGTCAGCCCGGGCCAAGTACGTGATGGACGTGGAGGAGATCACCCC
CGCCATCGTGGAGGCCTTTGTGAATGACTTCCTAGCAGAGAAGCTCAAACCGGAGCCCATCTAGCGTGGCTCCGG
CCTCCTGAGACGTTATTTAAAACTCAGCCTTCTCCTCCTCCCCCTCCTTCCTTCCGCCCTTGGACTTACCCAGCG
TGCCCCGAATCCCACCACCCAAGTGTCCAGCCTCTCTGTGGTGCCTTGTTTCTGCAGTAAACTCCTCAGCCAGCA
CCCTGGGGTGTGGAATCAGCAGCGGCAGAGTCCACCGTGTTTGGAGACTCTGTTTGGGAGCACGGGATGGCCGGG
GGCCCGGCCAGAGCGGGGCTGCATGGCTTTCGCAAAGTCACTAGCTTTTGGTGAAGGATCTGCCAGGGTGTCCTG
GGCAGAGTGAGCGTGGAGGGCCGGTGGGTCCCGCTCGGGCTCTGACTCTGACGTCGGCACACACGGCCCCGGACG
GCCAGAGGGGAACCGCCGGGTGACACCTGCGTGGAGGCTGAGCTGAGAAAGGGCCTCCGCTTAGAGCTGCGGGTG
AGGACGTCCTTTTCTAAGCAACACAGTCTTCCTCGGTCTGAGAGAAAAGCAGCCCACTCTTGTGTTCTCAGGCAG
GGGATCTCCAAATGCAAAAGGAAGCTTGTAGAGGTTTTTTGGGTGAGAAGAAAAATGTAGCTAAGGTAATGGTTC
ATATCATACAAACAGCTCCCACGATCCTGAAATTCTGTTAACGAATCCTTCTCTTTGGACATCTTCCCAAGAAAC
TTAGCCCTGAGTCCTAGGAGGAGCACCTCTGCACCAGCACGGACCTCTCGCTCCACCCAGCTCTGTGCCCAAGGC
CCCTGATCTCTGCTGAGGTGCCCACACCCACGTTCGATCACCCCTGCCATTCCCTTTTATTTTCTTTTTTTTGAG
ATGGAGTCTTGCTCTGTCGCCCAGGCTGGAGTGCAGTGGCACCATCTTGGCTCACTTCAACCTCCGCCCCCAAGG
TTCAAGTGATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGATTACAGGCACCCGCCACCGTACCTGGCTAATTTT
TGTATTTTTAGTAGAGATGGGGTTTCACCATGTTGGCCAGGCTGGTCTCGAACTCCTGACCTCAGGTGATCCACC
CGCCTCGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCGCCGTGCCCGGCCCCCTTTTCTTTTCAAAGCAGA
ACTACAAAGATGAGAAATTACCAGAAGCCTCGCCTTTTCCTAAGCACCAGCGGAAGGAGCTGTGCCCCGGGATGG
AGTGAGGGTGGAGGGCGCGTCAGCCACGGGTGGGCCTTGTGTCGCCTTGTATCGGCCCAGGTAGGTTGTTGGCCT
CTTACTTGGGCTGACCTGACCCCCGAAAGAGAAACAGACAACTCTGTTCTCAGGATTGGGGATGGACGGCTTCGG
CCAAGCGTTTTAGCCTCATTCACTCAGGCCCCACTCAGCACTCTGCCAGCCAAGACCATTGATTTGGAAAATCCG
GTCCCCACCCGCTAATGAGCTGTTGACACTGTTGTTCCTTGCTGAATTGGATTGTTGACTTGTAGTTCAGAGGCG
TACAACTAGTTGGCGATTAGACTTGTTATGTGATGTTACCAGCCTGAAATGCGATCACCCCGTAGGAAATAAAGC
AGGCATCTCTGGACCTC

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# FIGURE 4646A

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TGGCCGTGTGATTGCTCTGTGCCCATTACCCTGTGGCCGTGTGACTGCTGCTGTGCCCATTACCCTGTGGCCGTG
TGATTGCTGCTGTGCCCATTACCCTGTGGCCGTGTGATTGCTCTGTGCCCATTATCCTGTGGCCGTGTGATTGCT
CTGTGCCCATTACCCTGTGGCCGTGTGATTGCTCTGTGCCCATTACCCTGTGGCCGTGTGATTGCTCTGTGCCCA
TTATCCTGTGGCCGTGTGATTGCTCTGTGCCCATTATCCTGTGGCCGTGTGATTGCTCTGTGCCCATTATCCTGT
GGCCGTGTGATTGCTCTGTGCCCATTACCCTGTGGCCGTGTGATTGCTGCTGTGCCCATTACCCTGTGGCCGTGT
GATTGCTCTGTGCCCATTATCCTGTGGCCGTGTGATTGCTCTGTGCCCATTATCCTGTGGCTGTGTGATTGCTCT
GTGCCCATTATCCTGTAGCCGTGTGATTGCTTCTGTGCCCATTACCCTGTGGCTGTGTGATTGCTGCTGTGCCCA
TTATCCTGTGGCTGTGTGATTGCTGCTGTGCCCATTACCCTGTGGCTGTGTGATTGCTCTGTGCCCATTACCCTG
TGGCTGTGTGATTGCTCTGTGCCCATTATCCTGTGGCCGTGTGATTGCTGCTGTGCCTGTTACCCTGTGGCTGTG
TGATTGCTCTGTGCCCATTACCCTGTGGCTATGCTCCCTTCATCTGTCATGAGAAGCTCAGCTGTCATGTCCTGT
GGTACATGCTCAGTGGCCCCTGTAGTTTGTACTGTCCTCCTATTTCTAAACCCCTCTCCCCACATCCTCTGCTGG
CCCAGCCTTTGCTGGAGGGTCTCGCCTCAGCAGCCCAGCTTTTTCTTTTCACACACTTTTCCTGAAGGATCTCAT
TCACCGTCTTGGTTCCGGTGATCCCCTCTGGGCAGATACCTCTCAGAATCACATTTCCCAGCTTACTTCCCTCCT
GAACTTCCACCTGGCATTTCCGTTGCTGGAGGACATCTGTACCTTGATGGCCAAAGCTGAACTCATCTTTCCTCA
CACCTGCTCTGATTCTCCTCCATTCCCTGTATGTGATGTCACCTGGTGGCCTCCCAGTTCCCAGGCTGGAGAGCT
CGGAAGCCATTCTGGATTCCTCGGCCAAGTCCTTCTGACTCCAGCTGTGCAGTGGCTCTTGTAGTCATCCCTTCT
CCCCGTCCGCTGATGTCCTTTAAAACCCTTGTCATCTCAAACCATGACAGCCTACTAACAGCAGTGGCCATCTGG
AAACATTTTCACTATACTGTCTTATTTGGCTTGTCTGTGTGCAGGACCCTTGAACATCTGTGAAGAAATGACTAT
TCTGCATGGAGGCTTCTTGCTGGCCGAGCAGCTGTTCCACCCTAAGGCACTGGCAGAATTAACAAAGTCTGACTG
GGAACGTGTTGGACGGCCCATCGTGGAGGCCTTAAGGGAGATCTCCTCGGCTGCAGCACACTCCCAGCCCTTTGC
CTGGAAGAAGAAAGCCCTGATCATCATCTGGGCCAAGGTTCTGCAGCCGCACCCCGTGACCCCGTCCGACACAGA
GACACGGTGGCAGGAAGACCTGTTCTTCTCGGTGGGCAACATGATCCCCACCATCAACCACACCATCCTCTTCGA
GCTGCTCAAATCCCTGGAAGCTTCTGGACTCTTTATCCAGCTCCTGATGGCCCTGCCCACCACCATCTGCCATGC
AGAACTAGAGCGCTTTCTGGAACATGTGACCGTTGACACTTCTGCCGAAGACGTGGCCTTCTTCCTGGACGTCTG
GTGGGAGGTGATGAAGCACAAGGGTCACCCGCAGGACCCCCTGCTCTCCCAGTTTAGTGCAATGGCCCATAAGTA
CCTGCCTGCCTTAGATGAGTTCCCCCATCCTCCAAAGAGGCTTAGGTCAGACCCAGACGCGTGCCCCACCATGCC
CCTGTTGGCCATGCTGCTCCGCGGGCTGACACAGATCCAGAGTCGGATCCTGGGCCCGGGGAGGAAGTGCTGTGC
GCTGGCCAACCTGGCTGACATGCTGACTGTGTTTGCGCTGACAGAGGACGACCCCCAGGAGGTGTCTGCAACCGT
GTATCTGGACAAACTGGCCACGGTGATCTCTGTGTGGAACTCGGACACCCAGAATCCCTACCACCAGCAGGCGCT
GGCAGAGAAGGTGAAGGAGGCAGAACGGGATGTCAGCCTGACCTCGCTGGCCAAACTXCCCCAGTGAGACCATTT
TCGTGGGCTGCGAGTTCCTGCACCACCTGCTGCGGGAGTGGGGGGAGGAGTTGCAGGCCGTGCTCCGCAGCAGCC
AGGGGACAAGTTACGACAGCTACCGGCTGTGCGACAGTCTGACTTCCTTCAGCCAGAACGCGACGCTCTACCTGA
ACCGCACCAGCCTGTCCAAGGAGGACAGGCAGGTGGTCTCTGAGCTGGCGGAGTGTGTCAGGGACTTCCTGAGGA
AAACGAGCACGGTGCTGAAGAACAGGGCCTTGGAGGATATCACAGCTTCCATTGCCATGGCCGTCATCCAGCAGA
AGATGGACCGCCATATGGAAGTGTGCTACATTTTTGCCTCTGAGAAGAAGTGGGCCTTCTCGGACGAGTGGGTAG
CCTGCCTGGGGGAGTAACAGGGCCCTCTTCCGACAGCCAGACTTGGTGTTGAGGCTGCTGGAAACAGTGATAGACG
TCAGCACAGCTGACAGAGCCATCCCTGAGTCTCAGATCCGGCAGGTGATCCACCTGATCCTGGAATGTTACGCAG
ACCTCTCCCTGCCAGGTAAAAATAAAGTCCTTGCAGGTATCCTGCGTTCCTGGGGGCGAAAGGGCCTCTCTGAAA
AGTTGCTGGCTTATGTGGAGGGTTTTCAGGAAGACCTCAATACAACTTTTAACCAGCTCACTCAGAGTGCCTCCG
AACAGGGCTTGGCAAAAGCTGTGGCCTCCGTGGCCCGCCTGGTCATAGTGCACCCGGAAGTCACGGTGAAGAAAA
TGTGCAGCCTGGCTGTGGTCAATCTCGGCACCCACXAAXGTTCCTGGCCCAGATTCTCACTGCCTTCCCTGCCCT
TAGGTTTGTGGAAGAGCAGGGTCCCAATTCATCTGCCACTTTCATGGTGTCATGCCTCAAAGAAACCGTCTGGAT
GAAGTTCTCTACACCCAAGGAAGAAAAGCAATTTTTAGAGCTCCTGAACTGCCTGATGAGTCCCGTGAAACCCCA
AGGGATTCCAGTGGCTGCTCTTCTTGAGCCAGACGAGGTGCTGAAGGAATTTGTCCTGCCTTTCTTGAGGTTAGA
TGTTGAAGAGGTAGACCTCAGTCTGAGGATCTTCATCCAGACTCTAGAGGCAAACGCGTGCCGAGAGGAATACTG
GCTCCAGACCTGCTCCCCGTTTCCACTCCTCTTCAGCTTGTGCCAGCTCTTGGACCGCTTCAGCAAATACTGGCA
GCTTCCCAAGGAGAAGCGGTGCCTCTCTTTGGATAGGAAGGATCTAGCGATCCATATCCTGGAGCTCCTGTGTGA
GATTGTATCAGCCAATGCTGAGACCTTCTCCCCGGATGTCTGGATCAAGTCCCTGTCCTGGCTCCACCGCAAGTT
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# FIGURE 4646B

AGAACAGCTAGACTGGACTGTGGGCCTGAGGCTGAAGAGCTTCTTCGAGGGGCACTTCAAGTGTGAAGTGCCAGC
CXACAXCTTTTTGAGATCTGTAAGCTTTCAGAAGACGAGTGGACCTCCCAGGCCCACCCAGGGTACGGGGCTGGC
ACGGGGCTCCTGGCCTGGATGGAGTGCTGCTGCGTCTCCAGCGGCATCTCGGAGAGGATGCTGTCTCTCTTGGTG
GTGGACGTGGGCAATCCTGAGGAGGTCAGACTGTTCAGCAAAGGCTTTCTGGTGGCCCTGGTGCAAGTCATGCCT
TGGTGCAGCCCTCAGGAGTGGCAGCGCCTTCACCAGCTGACCAGGAGACTGCTGGAGAAGCAGCTCCTCCATGTC
CCTTATAGCCTGGAATATATTCAGTTTGTTCCCCTGCTCAACCTGAAGCCCTTTGCCCAGGAGTTGCAACTCTCC
GTCCTCTTCCTGAGGACTTTCCAGTTTCTCTGCAGCCATAGCTGTCGTGATTGGCTTCCTCTGGAAGGCTGGAAC
CACGTGGTCAAACTCCTCTGTGGCAGTCTGACCCGCCTCCTGGACTCAGTCAGGGCGATACAGGCAGCTGGCCCT
TGGGTTCAAGGACCAGAGCAGGACCTGACCCAGGAAGCCCTGTTTGTTTACACCCAGGTGTTCTGCCATGCTCTG
CACATCATGGCCATGCTCCACCCGGAGGTCTGTGAGCCACTCTACGTTTTAGCCTTGGAAACCCTCACCTGCTAT
GAGACTTTGAGCAAGACCAACCCTTCTGTCAGCTCCTTGCTCCAGAGGGCACACGAGCAGCGCTTCTTAAAGTCC
ATTGCTGAGGGCATCGGCCCTGAAGAACGGCGCCAAACCCTGTTGCAGAAGATGAGCAGCTTCTGACTTGGCGTG
GGGAGCTGGGCCCCAACATGGCGGGTCTGCAGAAGATCAGCAGCTTCTTACCTGTGCGGGAGCGAAAAAGCTGGG
CTTCAACATGGCAGGTCTGTAGGGGTCAGACCCGAGCAGCCTGGACTTTACAGTTATGTGAAACTGTCCACAAAA
AGTCATGGCAATAATGGTGTAAAGAAAATAGTTTCTTGGGTATTTGTAACGTACAAACTATCATAAAAATTCTCC
TCTTTCGC

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# FIGURE 4647

CCAACTTCGGCTATGACCTGTACCGGGTGCGATCCAGCATGAGCCCCACGACCAACGTGCTCCTGTCTCCTCTCA
GTGTGGCCACGGCCCTCTCGGCCCTCTCGCTGGGAGCGGAGCAGCGAACAGAATCCATCATTCACCGGGCTCTCT
ACTATGACTTGATCAGCAGCCCAGACATCCATGGTACCTATAAGGAGCTCCTTGACACGGTCACTGCCCCCCAGA
AGAACCTCAAGAGTGCCTCCCGGATCGTCTTTGAGAAGAAGCTGCGCATAAAATCCAGCTTTGTGGCACCTCTGG
AAAAGTCATATGGGACCAGGCCCAGAGTCCTGACGGGCAACCCTCGCTTGGACCTGCAAGAGATCAACAACTGGG
TGCAGGCGCAGATGAAAGGGAAGCTCGCCAGGTCCACAAAGGAAATTCCCGATGAGATCAGCATTCTCCTTCTCG
GTGTGGCGCACTTCAAGGGGCAGTGGGTAACAAAGTTTGACTCCAGAAAGACTTCCCTCGAGGATTTCTACTTGG
ATGAAGAGAGGACCGTGAGGGTCCCCATGATGTCGGACCCTAAGGCTGTTTTACGCTATGGCTTGGATTCAGATC
TCAGCTGCAAGATTGCCCAACTGCCCTTGACCGGAAGCATGAGTATCATCTTCTTCCTGCCCCTGAAAGTGACCC
AGAATTTGACCTTGATAGAGGAGAGCCTCACCTCCGAGTTCATTCATGACATAGACCGAGAACTGAAGACCGTGC
AGGCGGTCCTCACTGTCCCCAAGCTGAAGCTGAGTTACGAAGGCGAAGTCACCAAGTCCCTGCAGGAGATGAAGC
TGCAATCCTTGTTTGATTCACCAGACTTTAGCAAGATCACAGGCAAACCCATCAAGCTGACTCAGGTGGAACACC
GGGCTGGCTTTGAGTGGAACGAGGATGGGGCGGGAACCACCCCCAGCCCAGGGCTGCAGCCTGCCCACCTCACCT
TCCCGCTGGACTATCACCTTAACCAGCCTTTCATCTTCGTACTGAGGGACACAGACACAGGGGCCCTTCTCTTCA
TTGGCAAGATTCTGGACCCCAGGGGCCCCTAATATCCCAGTTTAATATTCCAATACCCTAGAAGAAAACCCGAGG
GACAGCAGATTCCACAGGACACGAAGGCTGCCCCTGTAAGGTTTCAATGCATACAATAAAAGAGCTTTATCCCT

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# FIGURE 4648

ATGGAAGAAGGCTCGGGGCCGCAGCCCACCCCGGACCGCCGGCCCAGCCCCCGGTACCTCCTCACCGCAATGGCCC
CCTCGCTCAGCTGGCCGACCATGGCTCCACCGCCAAGACTTCCCCGCGGACCCCGCAACAGCTCCAGCTTCCCCA
CCCGGACCTGAGG**ATG**AGCTGTTTCTAAAAAGACTTTCTAAAGGTTACTTGGTGGGAAAGGACTCGGACGCTCCT
CTTTTCTACAGAGAAGAAGGAAACAAAAAATTTCAGGAGAAAGATTACACAGGAGCTGCAGTGCTGTACTCTAAG
GGAGTGTCACATTCAAGGCCTAACACTGAGGACATGTCACTGTGTCATGCTAACCGCTCGGCAGCCCTCTTCCAC
CTGGGTCAGTATGAGACGTGTCTTAAAGACATTAACAGAGCACAGACACATGGGTATCCAGAAAGGTTGCAACCC
AAGATTATGTTACGTAAAGCAGAATGTCTGGTGGCCCTGGGGAGACTGCAGGAGGCAAGCCAGACCATCAGTGAT
CTTGAAAGGAACTTCACAGCCACACCAGCCCTAGCAGATGTCCTCCCTCAGACTCTGCAGAGAAACCTCCATCGT
CTGAAAATGAAGATGCAAGAAAAGGACAGTCTCACAGAAAGCTTCCCAGCAGCTCTGGCCAAAACCCTTGAGGAT
GCAGCGCTGAGGGAGGAGAATGAACAACTTTCCAATGCCTCATCATCCATCGGCTTATGCGTAGATCCTTTAAAA
GGTCGCTGTCTCGTTGCCACAAAAGATATTCTCCCAGGAGAGCTCCTGGTGCAGGAGGATGCTTTTGTGAGTGTT
CTCAACCCAGGAGAACTGCCACCACCGCATCACGGCCTAGACAGCAAATGGGACACCAGAGTCACCAATGGGGAC
CTCTATTGTCACCGATGTTTGAAGCACACTTTGGCCACAGTTCCGTGTGACGGATGCAGTTATGCCAAGTATTGC
AGCCAGGAGTGTTTGCAGCAGGCCTGGGAGCTCTACCACAGGACAGAATGTCCTCTGGGAGGGCTGCTTCTCACA
CTGGGTGTCTTTTGCCACATTGCCCTGAGGTTGACTCTTTTGGTGGGATTTGAGGATGTTCGCAAAATCATAACG
AAGCTTTGTGATAAGATTAGTAACAAGGACATCTGTTTACCTGAAAGCAACAATCAGGTCAAGACACTTAATTAT
GGCCTAGGGGAGAGTGAGAAAAATGGCAACATCGTTGAGACCCCAATTCCTGGATGCGATATTAATGGGAAGTAT
GAAAATAATTATAATGCTGTCTTCAACCTTTTGCCCCACACTGAAAACCATAGCCCAGAGCACAAATTCCTCTGT
GCTCTCTGTGTTTCTGCACTGTGCAGACAGCTAGAAGCAGCCAGTTTACAGGCCATCCCAACTGAGAGGATTGTG
AACTCCTCTCAGCTTAAAGCAGCAGTGACACCTGAATTGTGTCCTGACGTGACTATTTGGGGAGTGGCGATGCTG
AGACACATGTTACAGCTTCAGTGTAACGCTCAGGCGATGACCACCATACAACACACAGAGCGAGCTGTTCAGCGG
CTGTCGGGGTGCCAGCGTGACGCCGAGAGCTTCCTGTGGGCAGAGCACGCCGTGGTGGGAGAGATCGCGGATGGC
CTGGCCCGGGCCTGTGCTGCCTTAGGAGACTGGCAAAAGTCAGCCACCCATCTACAGAGGAGTCTCTACGTGGTG
GAGGTTCGCCACGGGCCGTCCAGTGTTGAAATGGGCCATGAGCTCTTCAAATTGGCCCAGATCTTTTTCAACGGG
TTTGCAGTACCCGAAGCCCTGAGCACAATACAGAAAGCTGAGGAGGTTCTGTCGCTGCACTGTGGCCCATGGGAC
GATGAAATCCAGGAGCTCCAGAAGATGAAATCCTGTTTGTTGGACTTACCACCCACCCTGTAGGGCCTGCATTG
TAG

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## FIGURE 4649

MSLCHANRSAALFHLGQYETCLKDINRAQTHGYPERLQPKIMLRKAECLVALGRLQEASQTISDLERNFTATPAL
ADVLPQTLQRNLHRLKMKMQEKDSLTESFPAALAKTLEDAALREENEQLSNASSSIGLCVDPLKGRCLVATKDIL
PGELLVQEDAFVSVLNPGELPPPHHGLDSKWDTRVTNGDLYCHRCLKHTLATVPCDGCSYAKYCSQECLQQAWEL
YHRTECPLGGLLLTLGVFCHIALRLTLLVGFEDVRKIITKLCDKISNKDICLRESNNQVKTLNYGLGEMLKWAMS
SSNWPRSFSTGLQYPKP

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# FIGURE 4650

AGAGTAGTTATCTTGATGGAAXTTAGAAGTTTTGAAGTCAGCTGAAGCAGTTGGAGTGAAGATTGGCAATCCAGT
GCCCTATAATGAAGGACTCGGGCAGCCGCAAGTAGCTCCTCCAGCGCCAGCAGXCCAGCCCAGCAGCAAGCAGCA
GGCCCCAGXCCGCXAXGAATGGAAGCTCGGGAATGGGTTCTACTGTTTCTAAGGCTTATGGTGCTTCAAAGACAT
TTGGAAAAGCTGCAXGGTCCCAGCCTGTCACACACTTCTGGGGGAACAXCAGTCCAAAGTGGTGCCCATTGCCAG
CCTCACTCCTTACCAGTCCAAGTGGACCATTTGTGCTCGTGTTACCAACAAAAGTCAGATCCGTACCTGGAGCAA
CTCCCGAGGGGAAGGGAAGCTTTTCTCCCTAGAACTGGTTGACGAAAGTGGTGAAATCCGAGCTACAGCTTTCAA
TGAGCAAGTGGACAAGTTCTTTCCTCTTATTGAAGTGAACAAGGTGTATTATTTCTCGAAAGGCACCCTGAAGAT
TGCTAACAAGCAGTTCACAGCTGTTAAAAATGACTACGAGATGACCTTCAATAACGAGACTTCCGTCATGCCCTG
TGAGGACGACCATCATTTACCTACGGTTCAGTTTGATTTCACGGGGATTGATGACCTCGAGAACAAGTCGAAAGA
CTCACTTGTAGACATCATCGGGATCTGCAAGAGCTATGAAGACGCCACTAAAATCACAGTGAGGTCTAACAACAG
AGAAGTTGCCAAGAGGAATATCTACTTGATGGACACATCCGGGAAGGTGGTGACTGCTACACTGTGGGGGGAAGA
TGCTGATAAATTTGATGGTTCTAGACAGCCCGTGTTGGCTATCAAAGGAGCCCGAGTCTCXTGATTTCGGTGGAC
GGAGCCTCTCCGTGCTGTCTTCAAGCAXCTATCATTGCGAATCCTGACATCCCAGAGGCCTATAAGCTTCGTGGA
TGGTTTGACGCAGAAGGACAAGCCTTAGATGGTGTTTCCATCTCTGATCTAAAGAGCGGCGGAGTCGGAGGGAGT
AACACCAACTGGAAAACCTTGTATGAGGTCAAATCCGAGAACCTGGGCCAAGGCGACAAGCCGGACTACTTTAGT
TCTGTGGCCACAGTGGTGTATCTTCGCAAAGAGAACTGCATGTACCAAGCCTGCCCGACTCAGGACTGCAATAAG
AAAGTGATTGATCAACAGAATGGATTGTACCGCTGTGAGAAGTGCGACACCGAATTCCCAATTTCAAGTACCGC
ATGATCCTGTCAGTAAATATTGCAGATTTTCAAGAGAATCAGTGGGTGACTTGTTTCCAGGAGTCTGCTGAAGCT
ATCCTTGGACAAAATGCTGCTTATCTTGGGGAATTAAAAGACAAGAATGAACAGGCATTTGAAGAAGTTTTCCAG
AATGCCAACTTCCGATCTTTCATATTCAGAGTCAGGGTCAAAGTGGAGACCTACAACGACGAGTCTCGAATTAAG
GCCACTGTGATGGACGTGAAGCCCGTGGACTACAGAGAGTATGGCCGAAGGCTGGTCATGAGCATCAGGAGAAGT
GCATTGATGTGAGAGGAGCAGTGCCAATCGGGCAGAAGTTTGCAAATAGGCAGAATGGAATCGATTTCCTCCCAC
CTCCGTGTGACGATCCCATGTTAGCTACACAGTGCAGAGGCTCTTGATGGTGGACTAAGCAATTCCTCCCTCGT
GCGCATCTCAGAACCCATCGGTAGGCAAAGGAAAATACGCTCAGGTGGTTGTGGTGTAGACTGTGTCAGGCCTAC
GGAGTCAGCCAGTGGCTAGCGCAAGACCAGTCACTCCCTCTGCCTTCAGGCTTCTGTCAATTTCATTATCATCAA
GCAGGAATTATGTCGTAAGTCACTGACCCTAACTGCAGACCATGAAGTAAATTATGTAACTAGGTTTTTGCTTCT
CCAGTGGTGACCACCCCCCCCCATCCCCGCTCACAACTTGGGTTCTTCTCAGCGGGGCGAGCTGAGAAGCGGTCA
TGAGCACCTGGGGATTTTAGTAAGTGTGTCTTCCTA

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# FIGURE 4651

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GATGGCTGCGCTGTTGCTGAGACACGTTGGTCGTCATTGCCTCCGAGCCCACTTTAGCCCTCAGCTCTGTATCAG
AAATTGGTCTCTTCCCATGGCGATGTCCATCTGCCACCGTGGCACTGGTATTGCTTTGAGTGCAGGGGTCTCTCT
TTTTGGCATGTTGGCCGTGTTACTCCCTGGGAACTTTGAGTCTTATTTGGAACTTGTGAAGTCCCTGTGTCTGGG
GCCAGCACTGATCCACACAGCTAAGTTTGCACTCGTCTTCCCTCTCATGTATCATACCTGGAATGGGATCCGACA
CTTGATGTGGGACCTAGGAAAAGGCCTGAAGATTCCCCAGCTATACCAGTCTGGAGTGGTTGTCCTGGTTCTTAC
TGTGTTGTCCTCTATGGGGCTGGCAGCCATGTGAAGAAAGGAGGCTCCCAGCATCATCTTCCTACACATTATTAC
ATTCACCCATCTTTCTGTTTGTCATTCTTATCTCCAGCCTGGGAAAAGTTCTCCTTATTTGTTTAGATCCTTTTG
TATTTTCAGATCTCCTTGGAGCAGTAGAGTACCTGGTAGACCTTAATAGTGGAAAAGGGTCTAGTTTTCCCCTTG
TTTCTAAAGATGAGGTGGCTGXCAAAAACTCCCCTTTTTTGCCCACAGCTTGCCTACTCTCGGCCTAGAAGCAGT
TATTCTCTCTCCATATTGGGCTTTGATTTGTGCTGAGGGTCAGCTTTTGGCTCCTTCTTCCTGAGACAGTGGAAA
CAATGCCAGCTCTXGTGGCTTCTXGCCCTGGGGACGGGCCGGGTGGGGGGTGGGTTGGTGAGGCTTTGGGTGCCA
CTACCTGTGGGTTGCTGGCTTAAAGGACAATTCTCTTCATTGGTGXAGAGCCCAGGCCATTAACACCTACACAGT
GTTATTGAAAGAAGAGAGGTGGGGGTGGAGGGGAATTAGTCTGTCCCAGCTAGAGGGAGATAAAGAGGGCTAGTT
AGTTCTTGXGAGCAGCTGCTTTTGAGGAGAAAATATATAGCTTTGGACACGAGGAAGATCCAGAAAATTATCATT
GAACATATTAATGGTTATTTCTTTTTCTTGGATTTCCXAGAAAAGCCTCTTAATTTTATGCTTTCTCATCGAAGT
AATGTACCCTTTTTTTCTGAAACTGAATTAAATACTCATTTT
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## FIGURE 4652

MAALLLRHVGRHCLRAHFSPQLCIRNAVPLGTTAKEEMERFWNKNIGSNRPLSPHITIYSWSLPMAMSICHRGTG
IALSAGVSLFGMSALLLPGNFESYLELVKSLCLGPALIHTAKFALVFPLMYHTWNGIRHLMWDLGKGLKIPQLYQ
SGVVVLVLTVLSSMGLAAM

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# FIGURE 4653

GATGGCTGCGCTGTTGCTGAGACACGTTGGTCGTCATTGCCTCCGAGCCCACTTTAGCCCTCAGCTCTGTATCAG
AAATTGGTCTCTTCCCATGGCGATGTCCATCTGCCACCGTGGCACTGGTATTGCTTTGAGTGCAGATGTGGGACC
TAGGAAAAGGCCTGAAGATTCCCCAGCTATACCAGTCTGGAGTGGTTGTCCTGGTTCTTACTGTGTTGTCCTCTA
TGGGGCTGGCAGCCATGTGAAGAAAGGAGGCTCCCAGCATCATCTTCCTACACATTATTACATTCACCCATCTTT
CTGTTTGTCATTCTTATCTCCAGCCTGGGAAAAGTTCTCCTTATTTGTTTAGATCCTTTTGTATTTTCAGATCTC
CTTGGAGCAGTAGAGTACCTGGTAGACCTTAATAGTGGAAAAGGGTCTAGTTTTCCCCTTGTTTCTAAAGATGAG
GTGGCTGXCAAAAACTCCCCTTTTTTGCCCACAGCTTGCCTACTCTCGGCCTAGAAGCAGTTAT

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# FIGURE 4654

<u>ATG</u>GCCGCGCAGCGACCCCTGCGGGTCCTGTGCCTGGCGGGCTTCCGGCAGAGCGAGCGGGGCTTCCGTGAGAAG
ACCGGGGCGCTGAGGAAGGCGCTGCGGGGTCGCGCCGAGCTCGTGTGCCTCAGCGGCCCGCACCCGGTCCCCGAC
CCCCCGGGCCCCGAGGGCGCCAGATCAGACTTCGGGTCCTGCCCTCCGGAGGAGCAGCCTCGAGGCTGGTGGTTT
TCAGAGCAGGAGGCCGACGTTTTCTCCGCATTGGAAGAGCCCGCCGTCTGCAGGGGCCTGGAGGAATCACTGGGG
ATGGTGGCACAGGCACTGAACAGGCTGGGGCCTTTTGACGGCCTTCTTGGTTTCAGCCAAGGGGCTGCGCTAGCA
GCCCTTGTGTGTGCCCTGGGCCAGGCAGGCGATCCCCGCTTCCCCTTGCCACGGTTTATCCTCTTGGTGTCTGGT
TTCTGTCCCCGGGGCATTGGGTTCAAGGAATCCATCCTGCAAAGGCCCTTGTCATTGCCTTCGCTCCATGTTTTT
GGGGACACTGACAAAGTCATCCCCTCTCAGGAGAGTGTGCAACTGGCCAGCCAATTTCCCGGAGCCATCACCCTC
ACCCACTCTGGTGGCCACTTCATTCCAGCAGCTGCACCCCAGCGTCAGGCCTACCTCAAGTTCTTGGACCAGTTT
GCAGAG<u>TGA</u>AGATCAAGAAATGTCTCTGCTCCTACATCCAGCTCCTCTAGGGGCAGCCTCCGTCATCCATGCCC
TCCCAGGACCCTCCACTCACTGCTGTGAGTGCGCCTCACCAGAACCAGTTAAGAGACAACTATCAATTCTTGAGA
CCCAAATTATAAGGGCCCTGCCCTGTACTGAAGAAAAGGGGAGCACAAGGCCTTAATGGACATTGACTTGTGAAA
ACGCAAACATGAATATGGTTGGAGAGCCCTGGATTAGGAGGGTGACATGGGGAAGGCAGAGGCTGGCACGATGGT
GACTGCCACATAATAAAGTGGTGATTTGGATTTTG

# FIGURE 4655

MAAQRPLRVLCLAGFRQSERGFREKTGALRKALRGRAELVCLSGPHPVPDPPGPEGARSDFGSCPPEEQPRGWWF
SEQEADVFSALEEPAVCRGLEESLGMVAQALNRLGPFDGLLGFSQGAALAALVCALGQAGDPRFPLPRFILLVSG
FCPRGIGFKESILQRPLSLPSLHVFGDTDKVIPSQESVQLASQFPGAITLTHSGGHFIPAAAPQRQAYLKFLDQF
AE

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## FIGURE 4656A

GCGGCGAGGGCGCGGGGGCTCTGAGGACCGCTCGGCGCCGCCTCCTGCCACACCATGGGCAGCGCAGAGGACGCA
GTCAAAGAGAAACTGCTGTGGAACGTGAAGAAGGAGGTGAAGCAAATCATGGAGGAGGCTGTCACCAGGAAGTTT
GTGCATGAAGACAGCAGCCACATCATTGCTTTATGTGGTGCAGTGGAGGCTTGCCTCTTGCATCAGCTGAGACGC
CGTGCCGCTGGCTTCCTGCGCAGTGACAAGATGGCAGCCCTGTTCACCAAGGTGGGGAAGACGTGCCCAGTGGCG
GGGGAGATTTGCCACAAGGTACAGGAGCTGCAGCAACAAGCAGAGGGCAGGAAACCCTCAGGGGTCAGCCAGGAG
GCCCTGCGGAGACAGGGCTCAGCCAGCGGGAAGGCCCCGGCCCTCAGCCCTCAGGCCTTGAAACACGTATGGGTA
CGCACGGCGCTCATCGAGAAAGTTCTGGACAAGGTCGTGCAATACCTGGCGGAAAACTGCAGCAAGTACTACGAG
AAGGAGGCACTGCTGGCAGACCCTGTGTTCGGCCCGATCCTGGCCTCTCTTCTAGTGGGACCCTGTGCCTTGGAA
TACACTAAGCTCAAGACAGCCGATCACTACTGGACTGACCCCTCTGCTGATGAGCTGGTCCAGCGGCACCGCATC
CGGGGTCCACCTACTCGCCAGGACTCCCCTGCAAAGCGCCCAGCCCTGGGGATCCGGAAACGGCACTCAAGCGGC
AGCGCGTCGGAGGACAGGCTGGCTGCCTGTGCCCGCGAGTGTGTGGAGTCCCTGCACCAGAACTCACGGACGCGG
CTGCTCTATGGCAAGAACCACGTGCTGGTGCAGCCGAAGGAGGATATGGAGGCGGTCCCTGGCTACCTCTCCCTG
CACCAGTCTGCAGAGAGCCTGACTCTGAAGTGGACCCCCAACCAGCTCATGAATGGGACTCTGGGGGACTCCGAG
CTGGAAAAGAGCGTTTACTGGGACTATGCCCTCGTGGTGCCCTTCAGCCAGGTCGTGTGCATCCACTGCCACCAG
CAAAAGAGCGGTGGCACGCTTGTGCTGGTGAGCCAGGATGGCATCCAGAGGCCGCCGCTGCATTTCCCACAGGGA
GGACACCTGCTGTCCTTTCTGTCCTGTCTGGAGAATGGGCTGCTGCCTCGGGGACAGCTAGAGCCCCGCTGTGG
ACCCAGCAAGGGAAGGGGAAAGTGTTCCCCAAGCTACGGAAACGAAGCAGCATTCGCTCCGTGGATATGGAGGAG
ATGGGCACGGGGCGGGCCACCGACTATGTGTTCCGGATCATCTACCCCGGCCACAGGCACGAGCACAACGCTGGT
GACATGATCGAGATGCAGGGCTTTGGGCCCAGCCTGCCAGCCTGGCACCTGGAGCCCCTGTGCAGTCAGGGCTCC
TCCTGCCTCTCCTGCTCCTCCAGCAGCTCCCCACATGCAACCCCCAGCCACTGTAGCTGCATCCCCGACCGGTTG
CCGCTCAGGCTACTGTGTGAGAGTATGAAGAGGCAGATCGTGTCCCGGGCCTTCTACGGCTGGCTGGCACACTGC
CGCCACCTGTCCACGGTGCGGACCCACCTGTCGGCGCTGGTGCACCATAGCGTTATCCCACCTGACCGGCCCCCG
GGGGCCTCCGCGGGCCTCACCAAGGACGTGTGGAGCAAGTATCAGAAGGACAAAAAGAACTACAAAGAGCTGGAG
CTGCTGCGGCAAGTTTACTACGGAGGCATAGAGCACGAGATCCGCAAGGACGTCTGGCCCTTTCTGCTTGGCCAC
TACAAGTTCGGCATGAGCAAGAAGGAGATGGAGCAGGTGGACGCAGTGGTGGCAGCAAGGTACCAGCAGGTGTTG
GCAGAGTGGAAGGCCTGCGAGGTGGTGGTGAGGCAGCGGGAGCGGGAGGCCCACCCAGCCACACGCACCAAGTTC
TCCTCAGGCAGCAGCATCGACAGCCACGTGCAGCGCCTCATCCACCGAGACTCCACCATCAGCAACGATGTGTTT
ATCTCAGTGGATGATCTGGAACCCCCGGAGCCCCAGGACCCTGAAGATTCCAGACCAAAACCTGAGCAGGAAGCA
GGACCCGGGACTCCGGGCACCGCCGTGGTGGAGCAGCAGCATTCCGTGGAGTTCGACTCTCCAGACTCAGGACTG
CCCTCCTCTCGCAATTACTCCGTGGCCTCGGGCATCCAGTCAAGCCTAGATGAGGGGCAGAGCGTGGGCTTCGAA
GAGGAGGACGGCGGTGGGGAGGAAGGCTCCAGTGGGCCCGGCCCTGCAGCTCACACTTTGAGGGAGCCCCAGGAT
CCCAGCCAGGAGAAGCCTCAGGCCGGAGAACTGGAGGCCGGAGAGGAGCTTGCGGCTGTGTGTGCGGCTGCCTAC
ACTATAGAATTACTGGACACTGTGGCCTTAAACCTGCACCGCATAGACAAGGATGTGCAGAGGTGTGACCGCAAC
TACTGGTACTTCACGCCCCCCAACCTCGAGAGGCTCAGAGACGTCATGTGCAGCTACGTGTGGGAGCACCTGGAC
GTGGGCTATGTGCAGGGCATGTGCGATCTGCTGGCGCCTCTCCTGGTCACCCTCGACAATGATCAGCTGGCCTAC
AGCTGCTTCAGCCACCTCATGAAGAGGATGAGCCAGAACTTCCCCAACGGGGGTGCCATGGACACCCACTTTGCC
AACATGCGCTCCCTCATCCAGATCCTGGACTCAGAGCTGTTTGAGCTGATGCATCAGAATGGAGACTACACCCAC
TTCTACTTCTGTTATCGCTGGTTCCTGCTGGATTTTAAGAGAGAACTGCTGTATGAGGATGTGTTTGCTGTGTGG
GAGGTGATCTGGGCAGCCAGGCACATCTCATCGGAGCACTTTGTCCTGTTCATCGCCCTCGCCCTGGTGGAGGCC
TACCGAGAGATCATCCGTGACAACAACATGGACTTCACTGACATCATCAAGTTTTTCAATGAACGTGCTGAGCAT
CACGATGCCCAGGAGATCCTGCGGATTGCCCGGGACCTCGTCCACAAGGTGCAGATGCTCATAGAGAACAAGTGA
GCTGGGGCCAGGAGGCAGCAGCCGTGCAGAGCCTGGGCTCCGGCAGGGAGAGGTGCAGGGGAGTCACCGCCCAGA
CCTCCCCAGCCACCAACCGACCCCACCTCTGTTCCTAACAAAGCGGTTGTGAGCCTGGATCCGACTCCCGGCAGT
GCTGACCCTGCAGGGCAAGTCAGGGGCCAGGATGCCCTCGGATCAGGGCCGGGATGGGAGGGGTCAGCCTCAGGG
AGCAGCTGCCTTGGGGGACACACCTACTCTGCTCCCCTCTCACACATCTGGGAGTAGCCCCACTGCCACCTGCAG
CCGCAGCCTGGACTGCTGCCCACGAGTGAACCTGGGGCCCCACAGGATTAACAGGGGCTATAGCGGCCTGGGCCC
TACTCAGCTGGGGTGGCAGAGGGCGAGAGGCTCTGTGCTGTGTCCCTTCTGAGGGTCCCTTTGCAGTCCCAGTAT
ATTGTGCGTGCACCAGCCCCAGCTGGAGCAACCAAAACTGCTTCTGGTTTAGGCACACGTCACGGGTGCGGGAGA

## FIGURE 4656B

CCCGGGCACGGGAGACCCGGGCCGCCTTCAGGCCGCTCCCCCGAGATTCTGGGGCAGTCGGAAGATGTGGGCCCT
GGGTGGGAGCAGCCCACTTCAGCAGCACTGCCACTGCCTTTGGCCACCTGAGGTGACCCCCAGGCCTCCCCGGCC
TTGTACAGTGTACCTCTGTGTATCTGTACAGCCTCGCTCCTGCCACCCCACCCTTGCGTTCTGCATTAGGTACTT
CCCTGAAAACCACGTGTAAGAAGTGATGCTTTTGCCAGTGGATGATCTGGAATGCGACCGGAGCACTTGCTCTGA
GGAATCCCAGGGTGACTCTGTCGGGGAAGAATCCGGTCACAGCCTCCCCTCAGAGACAGGCCTCAGTTCGAGGGC
AGCCCATTATCTGTCGCAGACATCTGCCATGTCCCTGAGACTGCGGGAGGCAGGGGATGCATGGGTGTCCCCATC
TGTCCCTGGTGAGAAGCAAGGCTAGCTCTGCCTTCCACATGCTTCTCAGGATGCCAAGAGGCCTAGGAACCCAGA
AACCCCCTTGGAGGAGCTGTGTATGCGGGGGTGCCAGGAAGGGCATAGCTCCTGCCCCCAGGCCTAGGCATGCTG
CTTGCTCGGCCATCCCCACTTCCTCCTCTACCCCAACACATGCAGGCTAGGCCTTGCCCTGGAACATGGAGGCCC
TGCCCGGGGCTGGGGCCTAGTCCAGCAGCCACCAAAGTCTGGCAGACTTTCTGCATTTGAGAAACATGACAAAGG
GCCCCGCAGCCCTTCTGCACCCAGCACAGCCTGCCCAGCCCAGCCCTGCCCCCGGGCACTGCACAGCCTGTCTGG
GGGCCAGACCACCCCATTGTCCATCCTTGTTGTCCGTGAGTCCTTGGCCTCCACCAAGCACGTGTGGCCATTGTG
TGCCTGCCTTAGTGACTCCGTGGTTTTGTGAGGAGCAGAGTGTGTATGATTTTTGCCTCAGAAACTATACTCTTC
TGTGTAACAGACCAATAAACAACATTTGTCAAC

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# FIGURE 4657

MGSAEDAVKEKLLWNVKKEVKQIMEEAVTRKFVHEDSSHIIALCGAVEACLLHQLRRRAAGFLRSDKMAALFTKV
GKTCPVAGEICHKVQELQQQAEGRKPSGVSQEALRRQGSASGKAPALSPQALKHVWVRTALIEKVLDKVVQYLAE
NCSKYYEKEALLADPVFGPILASLLVGPCALEYTKLKTADHYWTDPSADELVQRHRIRGPPTRQDSPAKRPALGI
RKRHSSGSASEDRLAACARECVESLHQNSRTRLLYGKNHVLVQPKEDMEAVPGYLSLHQSAESLTLKWTPNQLMN
GTLGDSELEKSVYWDYALVVPFSQVVCIHCHQQKSGGTLVLVSQDGIQRPPLHFPQGGHLLSFLSCLENGLLPRG
QLEPPLWTQQGKGKVFPKLRKRSSIRSVDMEEMGTGRATDYVFRIIYPGHRHEHNAGDMIEMQGFGPSLPAWHLE
PLCSQGSSCLSCSSSSSPHATPSHCSCIPDRLPLRLLCESMKRQIVSRAFYGWLAHCRHLSTVRTHLSALVHHSV
IPPDRPPGASAGLTKDVWSKYQKDKKNYKELELLRQVYYGGIEHEIRKDVWPFLLGHYKFGMSKKEMEQVDAVVA
ARYQQVLAEWKACEVVVRQREREAHPATRTKFSSGSSIDSHVQRLIHRDSTISNDVFISVDDLEPPEPQDPEDSR
PKPEQEAGPGTPGTAVVEQQHSVEFDSPDSGLPSSRNYSVASGIQSSLDEGQSVGFEEEDGGGEEGSSGPGPAAH
TLREPQDPSQEKPQAGELEAGEELAAVCAAAYTIELLDTVALNLHRIDKDVQRCDRNYWYFTPPNLERLRDVMCS
YVWEHLDVGYVQGMCDLLAPLLVTLDNDQLAYSCFSHLMKRMSQNFPNGGAMDTHFANMRSLIQILDSELFELMH
QNGDYTHFYFCYRWFLLDFKRELLYEDVFAVWEVIWAARHISSEHFVLFIALALVEAYREIIRDNNMDFTDIIKF
FNERAEHHDAQEILRIARDLVHKVQMLIENK

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## FIGURE 4658

CGCCGCCCAGCTCCCAGCCGAGGCTTTCTCAACCGCGTCAATAAAAGGCCGCCCCGACCCGCCCCCGCGCCCCGC
AGCCCTGCCGGACACCCCGGGCTGCAGCTGAGCGGGCGCAGACGGGCCGAGGCGGGCGCCGGGCGCGCAGGGACC
GAGGGACCGAGTGCTCCCCATGAGCGCACGTGGGCCGGGCGGTCCGCAAGCCCGGCTGAGAGCGCGCCATGGGGC
AGGCGGGCTGCAAGGGGCTCTGCCTGTCGCTGTTCGACTACAAGACCGAGAAGTATGTCATCGCCAAGAACAAGA
AGGTGGGCCTGCTGTACCGGCTGCTGCAGGCCTCCATCCTGGCGTACCTGGTCGTATGGGTGTTCCTGATAAAGA
AGGGTTACCAAGACGTCGACACCTCCCTGCAGAGTGCTGTCATCACCAAAGTCAAGGGCGTGGCCTTCACCAACA
CCTCGGATCTTGGGCAGCGGATCTGGGATGTCGCCGACTACGTCATTCCAGCCCAGAATGAAGGCATTCCTGATG
GCGCGTGCTCCAAGGACAGCGACTGCCACGCTGGGGAAGCGGTTACAGCTGGAAACGGAGTGAAGACCGGCCGCT
GCCTGCGGAGAGAGAACTTGGCCAGGGGCACCTGTGAGATCTTTGCCTGGTGCCCGTTGGAGACAAGCTCCAGGC
CGGAGGAGCCATTCCTGAAGGAGGCCGAAGACTTCACCATTTTCATAAAGAACCACATCCGTTTCCCCAAATTCA
ACTTCTCCAAAAGCAATGTGATGGACGTCAAGGACAGATCTTTCCTGAAATCATGCCACTTTGGCCCCAAGAACC
ACTACTGCCCCATCTTCCGACTGGGCTCCGTGATCCGCTGGGCCGGGAGCGACTTCCAGGATATAGCCCTGGAGG
GTGGCGTGATAGGAATTAATATTGAATGGAACTGTGATCTTGATAAAGCTGCCTCTGAGTGCCACCCTCACTATT
CTTTTAGCCGTCTGGACAATAAACTTTCAAAGTCTGTCTCCTCCGGGTACAACTTCAGATTTGCCAGATATTACC
GAGACGCAGCCGGGGTGGAGTTCCGCACCCTGATGAAAGCCTACGGGATCCGCTTTGACGTGATGGTGAACGGCA
AGGGTGCTTTCTTCTGCGACCTGGTACTCATCTACCTCATCAAAAAGAGAGAGTTTTACCGTGACAAGAAGTACG
AGGAAGTGAGGGGCCTAGAAGACAGTTCCCAGGAGGCCGAGGACGAGGCATCGGGGCTGGGGCTATCTGAGCAGC
TCACATCTGGGCCAGGGCTGCTGGGGATGCCGGAGCAGCAGGAGCTGCAGGAGCCACCCGAGGCGAAGCGTGGAA
GCAGCAGTCAGAAGGGGAACGGATCTGTGTGCCCACAGCTCCTGGAGCCCCACAGGAGCACGTGAATTGCCTCTG
CTTACGTTCAGGCCCTGTCCTAAACCCAGCCGTCTAGCACCCAGTGATCCCATGCCTTTGGGAATCCCAGGATGC
TGCCCAACGGGAAATTTGTACATTGGGTGCTATCAATGCCACATCACAGGGACCAGCCATCACAGAGCAAAGTGA
CCTCCACGTCTGATGCTGGGGTCATCAGGACGGACCCATCATGGCTGTCTTTTGCCCCACCCCCTGCCGTCAGT
TCTTCCTTTCTCCGTGGCTGGCTTCCCGCACTAGGGAACGGGTTGTAAATGGGGAACATGACTTCCTTCCGGAGT
CCTTGAGCACCTCAGCTAAGGACCGCAGTGCCCTGTAGAGTTCCTAGATTACCTCACTGGGAATAGCATTGTGCG
TGTCCGGAAAAGGGCTCCATTTGGTTCCAGCCCACTCCCCTCTGCAAGTGCCACAGCTTCCCTCAGAGCATACTC
TCCAGTGGATCCAAGTACTCTCTCTCCTAAAGACACCACCTTCCTGCCAGCTGTTTGCCCTTAGGCCAGTACACA
GAATTAAAGTGGGGGAGATGGCAGACGCTTTCTGGGACCTGCCCAAGATATGTATTCTCTGACACTCTTATTTGG
TCATAAAACAATAAATGGTGTCAATTTC

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# FIGURE 4659

GAACCGCCATCTTCCAGTAATTCGCCAAA**ATG**ACGAACACAAAGGGAAAGAGGAGAGGCACCGGATATATGTTCT
CTAGGCCTTTTAGAAAACATGGAGATGTTCCTTTGGCCACATATATGTGAATCTATAAGAAAGGTGATACTGTAG
ACATCAAGGGAATGGGTACTGTTCAAAAAGGAATGCCCCACAAGGGTTACCATGGCAAAACTGGAAGAGTCTACA
ATGTTCCCCAGCATGCTGTTGGCATTGTTGTAAACAAACAAGTTAAGGGCAAGATTCTTGCCAAGAGAATTAATG
TGCGTATTGAGCACATAAAGCACTCTAAGAGCCGAGATAGCTTCCTGGAACGCGTGAAGGAAAATGATCAGAAAA
AGAAAGAAGCCAAAGAGAAAGGTACCTGGGTTCAACTAAAGCACCAGCCTGCTCCACCCAGGGAAGCACACTTTG
TGAGAACCAACGGGAAGGCGCCTGAGCTGCTGGAACCTATTCCCTATGAATTCATGGCA**TAA**TAGGTGTTAAACA
AAAAAAAAATAAAGGATCTCTGGGCTAC

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## FIGURE 4660

MRTQRERGEAPDICSLGLLENMEMFLWPHICEIYKKGDTVDIKGMGTVQKGMPHKGYHGKTGRVYNVPQHAVGIV
VNKQVKGKILAKRINVRIEHIKHSKSRDSFLERVKENDQKKKEAKEKGTWVQLKHQPAPPREAHFVRTNGKAPEL
LEPIPYEFMA

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# FIGURE 4661

GAAAGATGGCGGCTACCTTACTAGCTGCTCGGGGAGCCGGGCCAGCACCGGCTTGGGGGCCGGAGGCGTTCACTC
CAGACTGGGAAAGCCGAGAAGTTTCCACTGGGACCACTATCATGGCCGTGCAGTTTGACGGGGGCGTGGTTCTGG
GGGCGGACTCCAGAACAACCACTGGGTCCTACATCGCCAATCGAGTGACTGACAAGCTGACACCTATTCACGACC
GCATTTTCTGCTGTCGCTCAGGCTCAGCTGCTGATACCCAGGCAGTAGCTGATGCTGTCACCTACCAGCTCGGTT
TCCACAGCATTGAACTGAATGAGCCTCCACTGGTCCACACAGCAGCCAGCCTCTTTAAGGAGATGTGTTACCGAT
ACCGGGAAGACCTGATGGCGGGAATCATCATCGCAGGCTGGGACCCTCAAGAAGGAGGGCAGGTGTACTCAGTGC
CTATGGGGGGTATGATGGTAAGGCAGTCCTTTGCCATTGGAGGCTCCGGGAGCTCCTACATCTATGGCTATGTTG
ATGCTACCTACCGGGAAGGCATGACCAAGGAAGAGTGTCTGCAATTCACTGCCAATGCTCTCGCTTTGGCCATGG
AGCGGGATGGCTCCAGTGGAGGAGTGATCCGCCTGGCAGCCATTGCAGAGTCAGGGGTAGAGCGGCAAGTACTTT
TGGGAGACCAGATACCCAAATTCGCCGTTGCCACTTTACCACCCGCCTGAATCCTGGGATTCTAGTATGCAATAA
GAGATGCCCTGTACTGATGCAAAATTTAATAAAGTTTGTCACAGAG

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## FIGURE 4662

MAATLLAARGAGPAPAWGPEAFTPDWESREVSTGTTIMAVQFDGGVVLGADSRTTTGSYIANRVTDKLTPIHDRI
FCCRSGSAADTQAVADAVTYQLGFHSIELNEPPLVHTAASLFKEMCYRYREDLMAGIIIAGWDPQEGGQVYSVPM
GGMMVRQSFAIGGSGSSYIYGYVDATYREGMTKEECLQFTANALALAMERDGSSGGVIRLAAIAESGVERQVLLG
DQIPKFAVATLPPA

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## FIGURE 4663

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GGGGGAAGATGGCGGCAGCCGTTCTGAGTGGGCCCTCTGCGGGCTCCGCGGCTGGGGTTCCTGGCGGGACCGGGG
GTCTCTCGGCAGTGAGCTCGGGCCCGCGGCTCCGCCTGCTGCTGCTGGAGAGTGTTTCTGGTTTGCTGCAACCTC
GAACGGGGTCTGCCGTTGCTCCGGTGCATCCCCCAAACCGCTCGGCCCCACATTTGCCCGGGCTCATGTGCCTAT
TGCGGCTGCATGGGTCGGTGGGCGGGGCCCAGAACCTTTCAGCTCTTGGGGCATTGGTGAGTCTCAGTAATGCAC
GTCXTXXCAGTTCCATCAAAACTCGGTTTGAGGGCCTGTGTCTGCTGTCCCTGCTGGTAGGGGAGAGCCCCACAG
AGCTATTCCAGCAGCACTGTGTGTCTTGGCTTCGGAGCATTCAGCAGGTGTTACAGACCCAGGACCCGCCTGCCA
CAATGGAGCTGGCCGTGGCTGTCCTGAGGGACCTCCTCCGATATGCAGCCCAGCTGCCTGCACTGTTCCGGGACA
TCTCCATGAACCACCTCCCTGGCCTTCTCACCTCCCTGCTGGGCCTCAGGCCAGAGTGTGAGCAGTCAGCATTGG
AAGGAATGAAGGCTTGTATGACCTATTTCCCTCGGGCTTGTGGTTCTCTCAAAGGCAAGCTGGCCTCATTTTTTC
TGTCTAGGGTGGATGCCTTGAGCCCTCAGCTCCAACAGTTGGCCTGTGAGTGTTATTCCCGGCTGCCCTCTTTAG
GGGCTGGCTTTTCCCAAGGCCTGAAGCACACCGAGAGCTGGGAGCAGGAGCTACACAGTCTGCTGGCCTCACTGC
ACACCCTGCTGGGGGCCCTGTACGAGGGAGCAGAGACTGCTCCTGTGCAGAATGAAGGCCCTGGGGTGGAGATGC
TGCTGTCCTCAGAAGATGGTGATGCCCATGTCCTTCTCCAGCTTCGGCAGAGGTTTTCGGGACTGGCCCGCTGCC
TAGGGCTCATGCTCAGCTCTGAGTTTGGAGCTCCCGTGTCCGTCCCTGTGCAGGAAATCCTGGATTTCATCTGCC
GGACCCTCAGCGTCAGTAGCAAGAATATTAGCTTGCATGGAGATGGTCCCCTGCGGCTGCTGCTGCTGCCCTCTA
TCCACCTTGAGGCCTTGGACCTGCTGTCTGCACTCATCCTCGCGTGTGGAAGCCGGCTCTTGCGCTTTGGGATCC
TGATCGGCCGCCTGCTTCCCCAGGTCCTCAATTCCTGGAGCATCGGTAGAGATTCCCTCTCTCCAGGCCAGGAGA
GGCCTTACAGCACGGTTCGGACCAAGGTGTATGCGATATTAGAGCTGTGGGTGCAGGTTTGTGGGGCCTCGGCGG
GAATGCTTCAGGGAGGAGCCTCTGGAGAGGCCCTGCTCACCCACCTGCTCAGCGACATCTCCCCGCCAGCTGATG
CCCTTAAGCTGCGTAGCCCGCGGGGGAGCCCTGATGGGAGTTTGCAGACTGGGAAGCCTAGCGCCCCCAAGAAGC
TAAAGCTGGATGTGGGGGAAGCTATGGCCCCGCCAAGCCACCGGAAAGGGGATAGCAATGCCAACAGCGACGTGT
GTGCGGCTGCACTCAGAGGCCTCAGCCGGACCATCCTCATGTGTGGGCCTCTCATCAAGGAGGAGACTCACAGGA
GACTGCATGACCTGGTCCTCCCCCTGGTCATGGGTGTACAGCAGGGTGAGGTCCTAGGCAGCTCCCCGTACACGA
GCTCCCGCTGCCGCCGTGAACTCTACTGCCTGCTGCTGGCGCTGCTGCTGGCCCCGTCTCCTCGCTGCCCACCTC
CTCTTGCCTGTGCCCTGCAAGCCTTCTCCCTCGGCCAGCGAGAAGATAGCCTTGAGGTCTCCTCTTTCTGCTCAG
AAGCACTGGTGACCTGTGCTGCTCTGACCCACCCCCGGGTTCCTCCCCTGCAGCCCATGGGCCCCACCTGCCCCA
CACCTGCTCCAGTTCCCCCTCCTGAGGCCCCATCGCCCTTCAGGGCCCCACCGTTCCATCCTCCGGGCCCCATGC
CCTCAGTGGGCTCCATGCCCTCAGCAGGCCCCATGCCTTCAGCAGGCCCCATGCCCTCAGCAGGCCCTGTGCCCT
CGGCACGCCCTGGACCTCCCACCACAGCCAACCACCTAGGCCTTTCTGTCCCAGGCCTAGTGTCTGTCCCTCCCC
GGCTTCTTCCTGGCCCTGAGAACCACCGGGCAGGCTCAAATGAGGACCCCATCCTTGCCCCTAGTGGGACTCCCC
CACCTACTATACCCCCAGATGAAACTTTTGGGGGGGAGAGTGCCCAGACCAGCCTTTGTCCACTATGACAAGGAGG
AGGCATCTGATGTGGAGATCTCCTTGGAAAGTGACTCTGATGACAGCGTGGTGATCGTGCCCGAXGGGGCTTCCC
CCCCCTGCCACCCCCACCACCCTCAGGTGCCACACCACCCCCTATAGCCCCCACTGGGCCACCAACAGCCTCCCC
TCCTGTGCCAGCGAAGGAGGAGCCTGAAGAACTTCCTGCAGCCCCAGGGCCTCTCCCGCCACCCCCACCTCCGCC
GCCGCCTGTTCCTGGTCCTGTGACGCTCCCTCCACCCCAGTTGGTCCCTGAAGGGACTCCTGGTGGGGGAGGACC
CCCAGCCCTGGAAGAGGATTTGACAGTTATTAATATCAACAGCAGTGATGAAGAGGAGGAGGAAGAGGAAGAAGA
GGAAGAAGAAGAAGAGGAAGAAGAGGAAGAGGAGGAAGACTTTGAGGAAGAGGAAGAGGATGAAGAGGAATATTT
TGAAGAGGAAGAAGAGGAGGAAGAAGAGTTTGAGGAAGAATTTGAGGAAGAAGAAGGTGAGTTAGAGGAAGAAGA
AGAAGAGGAGGATGAGGAGGAGGAAGAAGAACTGGAAGAGGTGGAAGACCTGGAGTTTGGCACAGCAGGAGGGGA
GGTAGAAGAAGGTGCACCTCCACCCCCAACCCTGCCTCCAGCTCTGCCTCCCCCTGAGTCTCCCCCAAAGGTGCA
GCCAGAACCCGAACCTGAACCCGGGCTGCTTTTGGAAGTGGAGGAGCCAGGGACGGAGGAGGAGCGTGGGGCTGA
CACAGCTCCCACCCTGGCCCCTGAAGCGCTCCCCTCCCAGGGAGAGGTGGAGAGGGAAGGGGAAAGCCCTGCGGC
AGGGCCCCCXTXCXXXCCCAGGAGCTTGTTGAAGAAGAGCCCTCTGCTCCCCCAACCCTGTTGGAAGAGGAGACT
GAGGATGGGAGTGACAAGGTGCAGCCCCCACCAGAGACACCTGCAGAAGAAGAGATGGAGACAGAGACAGAGGCC
GAAGCTCTCCAGGAAAAGGAGCAGGATGACACAGCTGCCATGCTGGCCGACTTCATCGATTGTCCCCCTGATGAT
GAGAAGCCACCACCTCCCACAGAGCCTGACTCCTAGCCATCTTCTGCACCCCACTCTTTGTTTCCAATAAAGTTA
TGTCCTTAGATAGCG
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# FIGURE 4664

MAAAVLSGPSAGSAAGVPGGTGGLSAVSSGPRLRLLLLESVSGLLQPRTGSAVAPVHPPNRSAPHLPGLMCLLRL
HGSVGGAQNLSALGALVSLSNARLSSIKTRFEGLCLLSLLVGESPTELFQQHCVSWLRSIQQVLQTQDPPATMEL
AVAVLRDLLRYAAQLPALFRDISMNHLPGLLTSLLGLRPECEQSALEGMKACMTYFPRACGSLKGKLASFFLSRV
DALSPQLQQLACECYSRLPSLGAGFSQGLKHTESWEQELHSLLASLHTLLGALYEGAETAPVQNEGPGVEMLLSS
EDGDAHVLLQLRQRFSGLARCLGLMLSSEFGAPVSVPVQEILDFICRTLSVSSKNISLHGDGPLRLLLLPSIHLE
ALDLLSALILACGSRLLRFGILIGRLLPQVLNSWSIGRDSLSPGQERPYSTVRTKVYAILELWVQVCGASAGMLQ
GGASGEALLTHLLSDISPPADALKLRSPRGSPDGSLQTGKPSAPKKLKLDVGEAMAPPSHRKGDSNANSDVCAAA
LRGLSRTILMCGPLIKEETHRRLHDLVLPLVMGVQQGEVLGSSPYTSSRCRRELYCLLLALLLAPSPRCPPPLAC
ALQAFSLGQREDSLEVSSFCSEALVTCAALTHPRVPPLQPMGPTCPTPAPVPPPEAPSPFRAPPFHPPGPMPSVG
SMPSAGPMPSAGPMPSAGPVPSARPGPPTTANHLGLSVPGLVSVPPRLLPGPENHRAGSNEDPILAPSGTPPPTI
PPDETFGGRVPRPAFVHYDKEEASDVEISLESDSDDSVVIVPEGLPPLPPPPPSGATPPPIAPTGPPTASPPVPA
KEEPEELPAAPGPLPPPPPPPPPVPGPVTLPPPQLVPEGTPGGGGPPALEEDLTVININSSDEEEEEEEEEEEEE
EEEEEEEDFEEEEEDEEEYFEEEEEEEEEFEEEFEEEEGELEEEEEEEDEEEEEELEEVEDLEFGTAGGEVEEG
APPPPTLPPALPPPESPPKVQPEPEPEPGLLLEVEEPGTEEERGADTAPTLAPEALPSQGEVEREGESPAAGPPP
QELVEEEPSAPPTLLEEETEDGSDKVQPPPETPAEEEMETETEAEALQEKEQDDTAAMLADFIDCPPDDEKPPPP
TEPDS

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# FIGURE 4665

ACAGCGAGCGGAGCCGCGGTCCGGACGGCAGCGCGTGCCCCGAGCTCTCCGCCTCCCCCCGCCCGCCAGCCGAGG
CAGCTCGAGCCCAGTCCGCGGCCCCAGCAGCAGCGCCGAGAGCAGCCCCAGTAGCAGCGCC**ATG**GCCGGGTGGAA
CGCCTACATCGACAACCTCATGGCGGACGGGACCTGTCAGGACGCGGCCATCGTGGGCTACAAGGACTCGCCCTC
CGTCTGGGCCGCCGTCCCCGGGAAAACGTTCGTCAACATCACGCCAGCTGAGGTGGGTGTCCTGGTTGGCAAAGA
CCGGTCAAGTTTTTACGTGAATGGGCTGACACTTGGGGGCCAGAAATGTTCGGTGATCCGGGACTCACTGCTGCA
GGATGGGGAATTTAGCATGGATCTTCGTACCAAGAGCACCGGTGGGGCCCCCACCTTCAATGTCACTGTCACCAA
GACTGACAAGACGCTAGTCCTGCTGATGGGCAAAGAAGGTGTCCACGGTGGTTTGATCAACAAGAAATGTTATGA
AATGGCCTCCCACCTTCGGCGTTCCCAGTAC**TGA**CCTCGTCTGTCCCTTCCCCTTCACCGCTCCCCACAGCTTTG
CACCCCTTTCCTCCCCATACACACACAAACCATTTTATTTTTTGGGCCATTACCCCATACCCCTTATTGCTGCCA
AAACCACATGGGCTGGGGGCCAGGGCTGGATGGACAGACACCTCCCCCTACCCATATCCCTCCCGTGTGTGGTTG
GAAAACTTTTGTTTTTTGGGGTTTTTTTTTTCTGAATAAAAAAGATTCTACTAACAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAA

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## FIGURE 4666

MAGWNAYIDNLMADGTCQDAAIVGYKDSPSVWAAVPGKTFVNITPAEVGVLVGKDRSSFYVNGLTLGGQKCSVIR
DSLLQDGEFSMDLRTKSTGGAPTFNVTVTKTDKTLVLLMGKEGVHGGLINKKCYEMASHLRRSQY

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# FIGURE 4667A

GGGGGGTCGGTGTGGGGTAGAATGGCCGCTGCCGCCGTCACCCGCGGGACCCCGGGAGCACAGACTCCCCCTCCC
CCCGGCCCCTCAGGCCGGGGGTGACCTTGCCCCCTGGAGCCCTCACC**ATG**AATACCAAGGACACCACCGAGGTTG
CTGAAAACAGCCACCACCTGAAGATCTTTCTCCCCAAGAAGCTGCTGGAGTGTCTTCCTCGCTGCCCGCTGCTGC
CTCCAGAGAGGCTACGGTGGAATACAAATGAGGAGATTGCATCCTACCTGATCACCTTTGAGAAGCATGATGAGT
GGCTGTCTTGTGCCCCAAAGACAAGGCCTCAGAATGGCTCCATCATCCTCTACAATCGCAAGAAGGTGAAATATC
GGAAGGATGGTTACCTCTGGAAGAAGCGGAAGGATGGGAAGACCACCCGAGAGGACCACATGAAGCTGAAGGTCC
AGGGCATGGAGTGTCTCTATGGCTGCTACGTTCACTCTTCCATCGTCCCCACATTCCATCGGCGCTGCTACTGGC
TGCTCCAGAACCCTGACATCGTCCTTGTGCACTACCTGAACGTCCCAGCCCTGGAGGACTGTGGAAAGGGCTGCA
GCCCCATCTTTTGTTCCATCAGCAGCGACCGTCGAGAGTGGCTGAAGTGGTCCCGGGAGGAGTTGTTGGGACAGC
TGAAGCCCATGTTTCATGGCATCAAGTGGAGCTGCGGGAATGGAACAGAAGAGTTCTCTGTAGAACACCTGGTGC
AGCAGATTTTGGACACCCACCCAACCAAGCCTGCTCCCCGAACCCACGCCTGTCTCTGCAGTGGGGGGCTTGGTT
CTGGGAGCCTTACCCACAAATGCAGCAGCACGAAACACCGCATCATCTCTCCCAAAGTGGAGCCCCGAGCTTTAA
CCCTGACCTCTATCCCCCACGCTCACCCCCCAGAGCCTCCTCCACTGATAGCCCCACTTCCCCCAGAGCTCCCCA
AGGCACACACCTCCCCATCTTCTTCCTCTTCTTCCTCCTCATCAGGTTTTGCAGAGCCCCTAGAAATCAGACCTA
GCCCTCCCACTTCTCGAGGGGGTTCTTCAAGAGGAGGCACTGCTATCCTCCTCCTGACAGGACTGGAGCAGCGGG
CTGGAGGCTTGACGCCCACCAGGCACTTGGCTCCACAGGCTGATCCTAGGCCTTCCATGAGTTTGGCAGTGGTTG
TAGGCACTGAGCCTTCTGCCCCACCAGCTCCTCCCAGTCCTGCCTTTGACCCTGATCGTTTTCTCAACAGCCCCC
AGAGGGGCCAGACATATGGAGGGGGGCAGGGAGTAAGCCCAGACTTCCCCGAGGCAGAGGCCGCTCATACCCCCT
GTTCTGCCCTAGAGCCTGCTGCTGCCCTGGAGCCCCAGGCAGCTGCTCGGGGTCCCCCACCACAGTCAGTAGCAG
GTGGGAGAAGAGGAAACTGCTTCTTCATCCAAGATGATGACAGTGGGGAGGAGCTCAAGGGTCACGGGGCTGCCC
CACCCATACCTTCACCCCCTCCCTCACCCCCACCCTCACCTGCCCCCTTGGAGCCGTCAAGCAGGGTAGGAAGAG
GAGAGGCCTTGTTTGGAGGACCTGTTGGGGCCAGTGAACTGGAGCCCTTCAGTCTTTCATCATTCCCAGACCTTA
TGGGAGAACTCATCAGTGACGAAGCTCCAAGCATCCCTGCTCCGACCCCCCAGCTGTCTCCTGCTCTTAGCACCA
TCACAGACTTCTCCCCAGAGTGGTCCTACCCAGAGGGTGGGGTCAAGGTGCTCATCACAGGTCCTTGGACCGAAG
CCGCCGAGCATTACTCCTGTGTCTTTGATCACATCGCAGTGCCAGCCTCACTTGTCCAGCCTGGTGTCTTACGCT
GCTACTGTCCCGCCCATGAGGTAGGGCTGGTGTCTTTGCAGGTGGCAGGGCGGGAGGGGCCCCTTTCTGCTTCTG
TGCTCTTTGAGTATCGAGCCCGCCGATTCCTGTCTCTGCCTAGTACTCAACTTGACTGGCTGTCACTGGACGACA
ACCAGTTCCGGATGTCCATACTAGAGCGACTGGAGCAGATGGAGAAGCGGATGGCAGAGATCGCAGCAGCTGGGC
AGGTGCCTTGCCAGGGTCCTGATGCTCCTCCAGTTCAGGATGAAGGCCAGGGGCCTGGGTTCGAAGCACGGGTAG
TGGTCTTGGTAGAAAGCATGATCCCACGCTCCACCTGGAAGGGTCCTGAACGTCTGGCCCATGGAAGCCCCTTCC
GGGGCATGAGCCTTCTGCACCTGGCTGCTGCCCAGGGCTATGCCCGCCTCATCGAGACCCTGAGCCAGTGGCGGA
GTGTGGAGACTGGAAGCTTGGACTTAGAGCAGGAGGTTGACCCGCTCAACGTGGATCATTTCTCTTGCACCCCTC
TGATGTGGGCTTGTGCCCTGGGACACCTGGAAGCTGCTGTGCTCCTTTTCCGTTGGAACCGACAGGCACTGAGCA
TTCCCGACTCTCTGGGCCGTCTGCCATTGTCTGTGGCTCATTCCCGGGGTCATGTGCGCCTTGCCCGCTGCCTTG
AGGAACTACAGAGACAGGAGCCTTCGGTGGAGCCCCCATTTGCCCTATCGCCACCCTCCTCCAGCCCAGACACTG
GTCTGAGCAGCGTCTCCTCGCCCTCGGAGCTGTCGGATGGCACCTTTTCCGTCACGTCAGCCTATTCTAGTGCCC
CAGATGGCAGTCCCCCCCCTGCACCTCTGCCAGCCTCTGAGATGACTATGGAGGACATGGCCCCAGGCCAGCTTT
CCTCTGGTGTCCCAGAAGCCCCCCTACTCCTCATGGACTATGAGGCTACCAACTCCAAGGGGCCCCTCTCCTCCC
TTCCTGCCCTCCCACCAGCTTCAGATGATGGGGCTGCTCCAGAGGACGCTGACAGCCCACAGGCTGTGGATGTGA
TCCCGGTGGACATGATCTCACTAGCCAAGCAGATCATCGAAGCCACACCGGAGCGGATTAAACGAGAGGACTTCG
TGGGGCTGCCCGAGGCTGGAGCCTCAATGCGGGAGCGGACAGGGGCTGTGGGGCTCAGTGAGACCATGTCCTGGC
TGGCCAGCTACCTGGAGAATGTGGACCATTTCCCCAGCTCAACCCCTCCCAGCGAACTGCCCTTTGAGCGAGGTC
GCCTGGCTGTCCCTTCAGCACCCTCCTGGGCAGAGTTTCTCTCTGCATCCACCAGTGGCAAGATGGAAAGTGATT
TTGCCCTGCTGACACTATCAGATCACGAGCAGCGGGAACTGTATGAGGCTGCCCGAGTCATCCAGACGGCCTTCC
GAAAGTACAAGGGCCGGCGGCTGAAGGAGCAGCAGGAGGTAGCAGCAGCTGTAATCCAGCGCTGTTACCGGAAGT
ACAAGCAGCTGACCTGGATTGCACTTAAGTTTGCACTCTATAAGAAGATGACCCAGGCGGCCATCCTGATCCAGA
GCAAGTTCCGAAGCTACTATGAACAGAAGCGATTTCAGCAGAGCCGCCGAGCGGCTGTGCTCATCCAGCAGCACT
ACCGCTCCTACCGCCGCAGGCCCGGCCCTCCCCACCGGACTTCGGCCACCCTGCCTGCCCGCAACAAAGGCTCCT

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# FIGURE 4667B

TTCTCACCAAGAAGCAGGACCAGGCAGCCCGGAAGATCATGAGATTCCTGCGGCGCTGCCGACACAGGATGAGGG
AACTGAAGCAGAACCAGGAGCTGGAAGGGCTTCCCCAGCCGGGACTGGCCACA**TGA**CCTGGCCACCGCCTTTCTC
·ACCACCCTGGGGGCGCCTCGTGCAGTCTTAACAGGGAGAGGGCTTTCTGGGGCAGGGGGAGCCCCTGTCGGCAGC
TTTCCTGTTCACCTTTGTTGGAGCCCTCTGTAGGCCTCCTCCCTCCTCCCCACGCCTTGCTCCCACACCCCTCTC
CTCGTCCCTCCTGGTCGTGCCCCGTCTCTTTTGGTCCTGGCTCCAGAAAACCCGCGCCCCACATACCTGCATCTT
CCGCTGTGACCTCCGGAGCCCTGCCTGCCCCTGCTCCCCAGCTCCTCCTGCCTGCACCCGACTCGGCCCCCTCCT
GACTTGCCTTATTTATTTGTTCGACGCGTCTCTGAATGTATCCGCCTCGGTTCCCACCACTGCCTTCGCTGCGCA
CGCCCCTCGTGTTTCAGGGCTGACCGTGTCCCCACCCGACTCCGCATGTTTGCGTCTGTTTCCTCCCTCTCTGGC
CCTGTCTTACCCCATCACCCGACTCTGGCCACTGACCTCAGGGCCGAAGGGGAGGTGGTGTACATAGGAACGCGT
TGCGGAGTCCGCCCCGTCCCCCGAGGGGAGGGGTCTTGTACATACTGTAACATACAGAGTATAGTGAAGAATCTA
TTTAAGGCGCCGCGGGGAGGGCTGCACGGCCGGGCTTGTGGTTCTCTAGCGCGGCGGGGGCCTCCTGCCGGCTCC
ACGGGCACTTTCTACTTGTGCATGGGCTTGGTTTATACGAATTGCCATTAAACATCGCTGCACC

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# FIGURE 4668

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MNTKDTTEVAENSHHLKIFLPKKLLECLPRCPLLPPERLRWNTNEEIASYLITFEKHDEWLSCAPKTRPQNGSII
LYNRKKVKYRKDGYLWKKRKDGKTTREDHMKLKVQGMECLYGCYVHSSIVPTFHRRCYWLLQNPDIVLVHYLNVP
ALEDCGKGCSPIFCSISSDRREWLKWSREELLGQLKPMFHGIKWSCGNGTEEFSVEHLVQQILDTHPTKPAPRTH
ACLCSGGLGSGSLTHKCSSTKHRIISPKVEPRALTLTSIPHAHPPEPPPLIAPLPPELPKAHTSPSSSSSSSSSG
FAEPLEIRPSPPTSRGGSSRGGTAILLLTGLEQRAGGLTPTRHLAPQADPRPSMSLAVVVGTEPSAPPAPPSPAF
DPDRFLNSPQRGQTYGGGQGVSPDFPEAEAAHTPCSALEPAAALEPQAAARGPPPQSVAGGRRGNCFFIQDDDSG
EELKGHGAAPPIPSPPPSPPPSPAPLEPSSRVGRGEALFGGPVGASELEPFSLSSFPDLMGELISDEAPSIPAPT
PQLSPALSTITDFSPEWSYPEGGVKVLITGPWTEAAEHYSCVFDHIAVPASLVQPGVLRCYCPAHEVGLVSLQVA
GREGPLSASVLFEYRARRFLSLPSTQLDWLSLDDNQFRMSILERLEQMEKRMAEIAAAGQVPCQGPDAPPVQDEG
QGPGFEARVVVLVESMIPRSTWKGPERLAHGSPFRGMSLLHLAAAQGYARLIETLSQWRSVETGSLDLEQEVDPL
NVDHFSCTPLMWACALGHLEAAVLLFRWNRQALSIPDSLGRLPLSVAHSRGHVRLARCLEELQRQEPSVEPPFAL
SPPSSSPDTGLSSVSSPSELSDGTFSVTSAYSSAPDGSPPPAPLPASEMTMEDMAPGQLSSGVPEAPLLLMDYEA
TNSKGPLSSLPALPPASDDGAAPEDADSPQAVDVIPVDMISLAKQIIEATPERIKREDFVGLPEAGASMRERTGA
VGLSETMSWLASYLENVDHFPSSTPPSELPFERGRLAVPSAPSWAEFLSASTSGKMESDFALLTLSDHEQRELYE
AARVIQTAFRKYKGRRLKEQQEVAAAVIQRCYRKYKQLTWIALKFALYKKMTQAAILIQSKFRSYYEQKRFQQSR
RAAVLIQQHYRSYRRRPGPPHRTSATLPARNKGSFLTKKQDQAARKIMRFLRRCRHRMRELKQNQELEGLPQPGL
AT
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# FIGURE 4669

AGGACGTGGGCGTGCAGGACGCGGGCGTGCAGGACGCCAGAGCTGGGTCAGAGCTCGAGCCAGCGGCGCCCGGAG
AGATTCGGAG**ATG**CAGGCGGCTCGGATGGCCGCGAGCTTGGGGCGGCAGCTGCTGAGGCTCGGGGGCGGAAGCTC
GCGGCTCACGGCGCTCCTGGGGCAGCCCCGGCCCGGCCCTGCCCGGCGGCCCTATGCCGGGGGTGCCGCTCAGCT
GGCTCTGGACAAGTCAGATTCCCACCCCTCTGACGCTCTGACCAGGAAAAAACCGGCCAAGGCGGAATCTAAGTC
CTTTGCTGTGGGAATGTTCAAAGGCCAGCTCACCACAGATCAGGTGTTCCCATACCCGTCCGTGCTCAACGAAGA
GCAGACACAGTTTCTTAAAGAGCTGGTGGAGCCTGTGTCCCGTTTCTTCGAGGAAGTGAACGATCCCGCCAAGAA
TGACGCTCTGGAGATGGTGGAGGAGACCACTTGGCAGGGCCTCAAGGAGCTGGGGGCCTTTGGTCTGCAAGTGCC
CAGTGAGCTGGGTGGTGTGGGCCTTTGCAACACCCAGTACGCCCGTTTGGTGGAGATCGTGGGCATGCATGACCT
TGGCGTGGGCATTACCCTGGGGGCCCATCAGAGCATCGGTTTCAAAGGCATCCTGCTCTTTGGCACAAAGGCCCA
GAAAGAAAAATACCTCCCCAAGCTGGCATCTGGGGAGACTGTGGCCGCTTTCTGTCTAACCGAGCCCTCAAGCGG
GTCAGATGCAGCCTCCATCCGAACCTCTGCTGTGCCCAGCCCCTGTGGAAAATACTATACCCTCAATGGAAGCAA
GCTTTGGATCAGTAATGGGGGCCTAGCAGACATCTTCACGGTCTTTGCCAAGACACCAGTTACAGATCCAGCCAC
AGGAGCCGTGAAGGAGAAGATCACAGCTTTTGTGGTGGAGAGGGGCTTCGGGGGCATTACCCATGGGCCCCCTGA
GAAGAAGATGGGCATCAAGGCTTCAAACACAGCAGAGGTGTTCTTTGATGGAGTACGGGTGCCATCGGAGAACGT
GCTGGGTGAGGTTGGGAGTGGCTTCAAGGTTGCCATGCACATCCTCAACAATGGAAGGTTTGGCATGGCTGCGGC
CCTGGCAGGTACCATGAGAGGCATCATTGCTAAGGCGGTAGATCATGCCACTAATCGTACCCAGTTTGGGGAGAA
AATTCACAACTTTGGGCTGATCCAGGAGAAGCTGGCACGGATGGTTATGCTGCAGTATGTAACTGAGTCCATGGC
TTACATGGTGAGTGCTAACATGGACCAGGGGAGCCACGGACTTCCAGATAGAGGCCGCCATCAGCAAAATCTTTGG
CTCGGAGGCAGCCTGGAAGGTGACAGATGAATGCATCCAAATCATGGGGGGTATGGGCTTCATGAAGGAACCTGG
AGTAGAGCGTGTGCTCCGAGATCTTCGCATCTTCCGGATCTTTGAGGGGACAAATGACATTCTTCGGCTGTTTGT
GGCTCTGCAGGGCTGTATGGACAAAGGAAAGGAGCTCTCTGGGCTTGGCAGTGCTCTAAAGAATCCCTTTGGGAA
TGCTGGCCTCCTGCTAGGAGAGGCAGGCAAACAGCTGAGGCGGCGGGCAGGGCTGGGCAGCGGCCTGAGTCTCAG
CGGACTTGTCCACCCGGAGTTGAGTCGGAGTGGCGAGCTGGCAGTACGGGCTCTGGAGCAGTTTGCCACTGTGGT
GGAGGCCAAGCTGATAAAACACAAGAAGGGGATTGTCAATGAACAGTTTCTGCTGCAGCGGCTGGCAGACGGGGC
CATCGACCTCTATGCCATGGTGGTGGTTCTCTCGAGGGCCTCAAGATCCCTGAGTGAGGGCCACCCCACGGCCCA
GCATGAGAAAATGCTCTGTGACACCTGGTGTATCGAGGCTGCAGCTCGGATCCGAGAGGGCATGGCCGCCCTGCA
GTCTGACCCCTGGCAGCAAGAGCTCTACCGCAACTTCAAAAGCATCTCCAAGGCCTTGGTGGAGCGGGGTGGTGT
GGTCACCAGCAACCCACTTGGCTTC**TGA**ATACTCCCGGCCAGGGCCTGTCCCAGTTATGTGCCTTCCCTCAAGCC
AAAGCCGAAGCCCCTTTCCTTAAGGCCCTGGTTTGTCCCGAAGGGGCCTAGTGTTCCCAGCACTGTGCCTGCTCT
CAAGAGCACTTACTGCCTCGCAAATAATAAAAATTTCTAGCCAG

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# FIGURE 4670

MQAARMAASLGRQLLRLGGGSSRLTALLGQPRPGPARRPYAGGAAQLALDKSDSHPSDALTRKKPAKAESKSFAV
GMFKGQLTTDQVFPYPSVLNEEQTQFLKELVEPVSRFFEEVNDPAKNDALEMVEETTWQGLKELGAFGLQVPSEL
GGVGLCNTQYARLVEIVGMHDLGVGITLGAHQSIGFKGILLFGTKAQKEKYLPKLASGETVAAFCLTEPSSGSDA
ASIRTSAVPSPCGKYYTLNGSKLWISNGGLADIFTVFAKTPVTDPATGAVKEKITAFVVERGFGGITHGPPEKKM
GIKASNTAEVFFDGVRVPSENVLGEVGSGFKVAMHILNNGRFGMAAALAGTMRGIIAKAVDHATNRTQFGEKIHN
FGLIQEKLARMVMLQYVTESMAYMVSANMDQGATDFQIEAAISKIFGSEAAWKVTDECIQIMGGMGFMKEPGVER
VLRDLRIFRIFEGTNDILRLFVALQGCMDKGKELSGLGSALKNPFGNAGLLLGEAGKQLRRRAGLGSGLSLSGLV
HPELSRSGELAVRALEQFATVVEAKLIKHKKGIVNEQFLLQRLADGAIDLYAMVVVLSRASRSLSEGHPTAQHEK
MLCDTWCIEAAARIREGMAALQSDPWQQELYRNFKSISKALVERGGVVTSNPLGF

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# FIGURE 4671

GAGACCATGGCGGGTAGCAGCACTGGGGGCGGTGGGGTTGGGGAGACGAAGGTGATTTACCACCTGGATGAGGAA
GAGACTCCCTACCTGGTGAAGATCCCTGTCCCCGCCGAGCGCATCACCCTCGGCGATTTCAAGAGCGTCCTGCAG
CGGCCCGCGGGCGCCAAGTACTTTTTCAAGTCTATGGATCAGGATTTCGGGGTGGTGAAGGAAGAAATTTCAGAT
GACAACGCCCGCCTCCCCTGCTTCAACGGAAGGGTGGTATCCTGGCTGGTGTCCTCAGATAATCCCCAACCCGAG
ATGGCCCCTCCAGTCCATGAGGCTCGGGCAGAACTGGCGCCTCCAGCCCCACCTTTACCTCCTTTGCCACCCGAG
AGGACCAGCGGCATTGGGGACTCAAGGCCTCCATCCTTCCACCCTAATGTGTCCAGCAGCCATGAGAATCTGGAG
CCTGAGACAGAAACCGAGTCAGTAGTGTCACTGAGGCGGGAGCGGCCTCGCAGGAGAGACAGCAGTGAGCATGGC
GCTGGGGGCCACAGGACTGGTGGCCCCTCAAGGCTGGAGCGCCACCTGGCCGGATACGAGAGCTCCTCTACCCTC
ATGACCAGCGAGCTGGAGAGTACCAGCCTGGGGGACTCGGACGAGGAGGACACCATGAGCAGGTTCAGCAGCTCC
ACGGAGCAGAGCAGTGCCTCCCGCCTCCTTAAGCGCCACCGGCGGCGAAGGAAGCAGAGGCCACCCCGCCTGGAG
AGGACGTCATCCTTCAGCAGCGTCACAGATTCCACAATGTCTCTCAATATCATCACAGTCACGCTAAACATGGAG
AAGTACAACTTCCTGGGTATCTCCATTGTTGGCCAGAGCAATGAGCGGGGAGACGGAGGCATCTACATTGGCTCC
ATCATGAAGGGTGGGGCTGTGGCGGCCGACGGGCGCATTGAGCCAGGGGACATGCTTTTGCAGGTGAATGACATG
AACTTTGAGAACATGAGCAACGATGACGCTGTGCGGGTGCTGAGGGACATTGTGCACAAGCCTGGCCCCATTGTG
CTGACTGTGGCCAAGTGCTGGGATCCCTCTCCTCAGGCCTATTTCACTCTCCCCCGAAATGAGCCCATCCAGCCA
ATTGACCCTGCTGCCTGGGTGTCCCATTCCGCGGCTCTGACTGGCACCTTCCCAGCCTATCCAGGTTCCTCCTCC
ATGAGCACCATTACATCTGGATCGTCTTTGCCTGATGGCTGTGAAGGCCGGGGTCTCTCCGTCCATACGGACATG
GCATCGGTGACCAAGGCCATGGCAGCTCCAGAGTCTGGACTGGAAGTCCGGGACCGCATGTGGCTCAAGATCACC
ATCCCTAATGCCTTTCTGGGCTCGGATGTGGTTGACTGGCTCTACCATCACGTGGAGGGCTTTCCTGAGCGGCGG
GAGGCCCGCAAGTATGCCAGCGGGCTGCTCAAAGCAGGCCTGATCCGACACACCGTCAACAAGATCACCTTCTCT
GAGCAGTGCTATTACGTCTTCGGAGACCTCAGTGGTGGCTGTGAGAGCTACCTAGTCAACCTGTCTCTCAATGAC
AACGATGGCTCCAGTGGGGCTTCAGACCAGGATACCCTGGCTCCTCTGCCTGGGGCCACCCCCTGGCCCCTGCTG
CCCACTTTCTCCTACCAGTACCCTGCCCCACACCCCTACAGCCCGCAGCCTCCACCCTACCATGAGCTTTCATCT
TACACCTATGGTGGGGGCAGTGCCAGCAGCCAGCATAGTGAGGGCAGCCGGAGCAGTGGGTCGACACGGAGTGAT
GGGGGGGGCAGGGCGCACGGGGAGGCCCGAGGAGCGGGCCCCCGAGTCCAAGTCCGGCAGTGGCAGTGAGTCTGAG
CCCTCCAGCCGAGGGGGCAGCCTTCGGCGGGGTGGGGAAGCAAGTGGGACTAGCGATGGGGGCCCTCCTCCATCC
AGAGGCTCAACTGGGGGTGCCCCTAATCTCCGAGCCCACCCAGGGCTCCATCCCTATGGACCGCCCCCTGGCATG
GCCCTCCCCTACAACCCCATGATGGTGGTCATGATGCCCCCACCTCCACCTCCAGTCCCTCCAGCAGTGCAGCCT
CCGGGGGGCCCCTCCAGTCAGAGACCTGGGCTCTGTGCCCCCAGAACTGACAGCCAGCCGCCAAAGCTTCCACATG
GCCATGGGCAATCCCAGCGAGTTCTTTGTGGATGTTATGTAGCCCACTGTGGGGCCAGGCTGGGCCGGGCGCTCC
TGGTGTGTGACTGGGTGTCCTGGCCGTCATGTGCTTGCTCTTACAGTGCCTGGGCTCAGCCTACCAGCTGCTGCC
ATACAGGAGATTGTGGCCACTGTGACTCTCACCAGCAGTGCCTGGTTCCTCCCCCTTCCCTCAGGGGTAGACAAG
GGACCTTTGATTATTTTTAGCTTTGTTTTTTTATAAGCCTTTTGGGGGGTTAAAATAGAGTTTCTTACATTTTTG
GGACTTTTTTAATAGGCATTTCCTCTTTT

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## FIGURE 4672

AAAAAAAAAAAAGAGGGAGGTGGCGGCAGCGGCTAGCGGACTCGAGTCTCAACCGGGCTGAGGCGGACACTTCTG
TGGAGCGAAGCAGTGGGAGCATCGAGCACTAGAGGCGGCACCGGGATCCCCGGCTCCGGGGAGGGGGGCGCCGGA
CCGGGAGGAGGGGAGGGGGCG**ATG**CTGGAAGCCATGGCGGAGCCCAGTCCCGAAGATCCACCTCCGACCCTTAAG
CCAGAGACTCAGCCACCAGAGAAACGGCGGAGAACAATTGAGGATTTCAACAAATTCTGCAGTTTTGTTTTGGCA
TATGCTGGTTACATTCCCCCTAGCAAAGAGGAAAGTGACTGGCCAGCCTCTGGCTCCAGCTCTCCATTGCGAGGA
GAGAGTGCGGCCGACAGTGATGGCTGGGACTCGGCCCCCTCAGATCTTCGAACCATCCAGACTTTTGTTAAGAAA
GCAAAGTCATCCAAGAGAAGGGCAGCTCAAGCAGGTCCCACCCAGCCAGGACCCCCAAGGTCCACTTTCTCTCGT
CTGCAGGCCCCCGACAGTGCTACCTTGCTTGAGAAGATGAAGCTCAAGGACTCTCTCTTTGATCTGGATGGGCCC
AAAGTGGCATCTCCTTTGTCCCCCACATCCCTGACACATACCTCCCGGCCCCCTGCTGCTCTTACCCCCGTGCCC
CTTTCCCAGGGGGACCTCTCCCATCCTCCTCGAAAGAAGGACCGAAAGAACCGAAAGTTGGGGCCAGGAGCTGGG
GCTGGCTTTGGGGTGCTTCGGAGGCCTCGGCCAACTCCTGGGGATGGGGAAAAGAGATCTCGAATCAAGAAGAGC
AAGAAGCGGAAGTTAAAAAAGGCAGAACGGGGGGATAGACTCCCACCTCCTGGGCCTCCCCAGGCACCCCCAGTG
ATACAGACTCTGAAGAGGAGGAGGAAGAGGAGGAAGAGGAAGAAGAAGAAGAGATGGCAACAGTGG**TAG**GGGGTG
AAGCCCCAGTCCCTGTGCTGCCAACACCCCCTGAGGCTCCTAGGCCCCCTGCCACAGTGCACCCTGAAGGAGTCC
CTCCTGCTGACAGTGAAAGCAAGGAGGTGGGCAGCACTGAAACAAGCCAAGATGGAGATGCCAGCTCCAGTGAAG
GCGAGATGCGGGTCATGGACGAGGACATCATGGTAGAATCAGGTGATGACTCATGGGATCTGATCACATGTTACT
GTCGAAAGCCCTTTGCAGGGCGGCCCATGATTGAGTGCAGCCTGTGTGGGACGTGGATCCACCTCTCCTGTGCTA
AGATTAAGAAGACCAACGTCCCCGACTTCTTTTATTGCCAGAAATGCAAGGAACTGAGGCCAGATGCCCGGCGGT
TAGGGGGGGCCCCCCAAATCTGGAGAGCCCTGATGGCACCAACTTTAGCCTGGAACTTCCAAATGACAACATGATT
TGGGAACTGAGCCTCAGGGTCCTCAGCCTATCCCCTGGAGCTTGGATACTGTCTGCACTTCAAGGCAGGAATTCT
CAAGGGAGACTTGTTTGAAAATGAGTGTCTCACTTTCCCACCCTATCCTTCCTCCCCACTCTGTGGACTTGAAAT
TGAATCCATTACGGTTGGGGATGGGAGGCTGTCTGTGTCCCGACACATAATCTCTGTCTCTTGGACCTGCCACCA
TCACTTTCTGGGTCAGGATTGGAATTGGGATGGAATGGGACAGTTGTCTATAAAACTCTAGTGTAAATATTAGCA
CTCCCCTCCCTCATCTTTTCTTCTATTTCACTCCCCATTTATTTTCTTCTACACCGGTTGTATTTTTAATTTTGG
ACTTCCCCTATTGGGCATGGCAGCTCAAAGGTGGAGTACTAGAGCCTGGCCAAGTGAGGAAGGAAAGCAGAAAGG
TGACGATTCTCACTCACCTCTTTGTTTTTAATAATATCGGCCGCTGTTTGTACAGACAGCCTGCGTGTTGTAAA
TAAAGCAGGGTGGGCTCTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

5063/6881
# FIGURE 4673

MLEAMAEPSPEDPPPTLKPETQPPEKRRRTIEDFNKFCSFVLAYAGYIPPSKEESDWPASGSSSPLRGESAADSD
GWDSAPSDLRTIQTFVKKAKSSKRRAAQAGPTQPGPPRSTFSRLQAPDSATLLEKMKLKDSLFDLDGPKVASPLS
PTSLTHTSRPPAALTPVPLSQGDLSHPPRKKDRKNRKLGPGAGAGFGVLRRPRPTPGDGEKRSRIKKSKKRKLKK
AERGDRLPPPGPPQAPPVIQTLKRRRKRRKRKKKKRWQQW

# FIGURE 4674

GCTCCGCTGAATCCGCCCGCGCGTCGCCGCCGTCGTCGCCGCCCCCCGTCCCGGCCCCCCTGGGTTCCCTCAGCC
CAGCCCTGTCCAGCCCGGTTCCCGGGAGGATGAAGTTCGTGTACAAAGAAGAGCATCCGTTCGAGAAGCGCCGCT
CTGAGGGCGAGAAGATCCGAAAGAAATACCCGGACCGGGTGCCGGTGATAGTAGAAAAGGCTCCCAAAGCTCGGA
TAGGAGACCTGGACAAAAAGAAATACCTGGTGCCTTCTGATCTCACAGTTGGTCAGTTCTACTTCTTGATCCGGA
AGCGAATTCATCTCCGAGCTGAGGATGCCTTGTTTTTCTTTGTCAACAATGTCATTCCACCCACCAGTGCCACAA
TGGGTCAGCTGTACCAGGAACACCATGAAGAAGACTTCTTTCTCTACATTGCCTACAGTGACGAAAGTGTCTACG
GTCTGTGAAGCTGCTGCCCCTGAGCTGGAGGGGGGTCTCATTCTACAAAGAGAGAGGTGGCCCCCCTTTCTTGAC
CTCCTCCTCCTTCAAGCTCAAACACCACCTCCCTTATTCAGGACCGGCACTTCTTAATGTTTGTGGCTTTCTCTC
CAGCCTCTCTTAGGAGGGGTAATGGTGGAGTTGGCATCTTGTAACTCTCCTTTCTCCTTTCTTCCCCTTTCTCTG
CCCGCCTTTCCCATCCTGCTGTAGACTTCTTGATTGTCAGTCTGTGTCACATCCAGTGATTGTTTTGGTTTCTGT
TCCCTTTCTGACTGCCCAAGGGGCTCAGAACCCCAGCAATCCCTTCCTTTCACTACCTTCTTTTTTGGGGGTAGT
TGGAAGGGACTGAAATTGTGGGGGGAAGGTAGGAGGCACATCAATAAAGAGGAAACCACCAAGCTG

5065/6881
# FIGURE 4675

CCGGCGGCGCCTCAGGTCGCGGGGCGCCTAGGCCTGGGTTGTCCTTTGCATCTGCACGTGTTCGCAGTCGTTTCC
GCG**ATG**CTGCCTCTGCTGCGCTGCGTGCCCCGTGTGCTGGGCTCCTCCGTCGCCGGCCTCCGCGCTGCCGCGCCC
GCCTCGCCTTTCCGGCAGCTCCTGCAGCCGGCACCCCGGCTGTGCACCCGGCCCTTCGGGCTGCTCAGCGTGCGC
GCAGGTTCCGAGCGGCGGCCGGGCCTCCTGCGGCCTCGCGGACCCTGCGCCTGTGGCTGTGGCTGCGGCTCGCTG
CACACCGACGGAGACAAAGCTTTTGTTGATTTCCTGAGTGATGAAATTAAGGAGGAAAGAAAAATTCAGAAGCAT
AAAACCCTCCCTAAGATGTCTGGAGGTTGGGAGCTGGAACTGAATGGGACAGAAGCGAAATTAGTGCGGAAAGTT
GCCGGGGAAAAAATCACGGTCACTTTCAACATTAACAACAGCATCCCACCAACATTTGATGGTGAGGAGGAACCC
TCGCAAGGGCAGAAGGTTGAAGAACAGGAGCCTGAACTGACATCAACTCCCAATTTCGTGGTTGAAGTTATAAAG
AATGATGATGGCAAGAAGGCCCTTGTGTTGGACTGTCATTATCCAGAGGATGAGGTTGGACAAGAAGACGAGGCT
GAGAGTGACATCTTCTCTATCAGGGAAGTTAGCTTTCAGTCCACTGGCGAGTCTGAATGGAAGGATACTAATTAT
ACACTCAACACAGATTCCTTGGACTGGGCCTTATATGACCACCTAATGGATTTCCTTGCCGACCGAGGGGTGGAC
AACACTTTTGCAGATGAGCTGGTGGAGCTCAGCACAGCCCTGGAGCACCAGGAGTACATTACTTTTCTTGAAGAC
CTCAAGAGTTTTGTCAAGAGCCAG**TAG**AGCAGACAGATGCTGAAAGCCATAGTTTCATGGCAGGCTTTGGCCAGT
GAACAAATCCTACTCTGAAGCTAGACATGTGCTTTGAAATGATTATCATCCTAATATCATGGGGGAAAAAATACC
AAATTTAAATTATATGTTTTGTGTTCTCATTTATTATCATTTTTTTCTGTACAAATCTATTATTTCTAGATTTTT
GTATAACATGATAGACATAAAATTGGTTTATCTCCTCC

5066/6881
## FIGURE 4676

MLPLLRCVPRVLGSSVAGLRAAAPASPFRQLLQPAPRLCTRPFGLLSVRAGSERRPGLLRPRGPCACGCGCGSLH
TDGDKAFVDFLSDEIKEERKIQKHKTLPKMSGGWELELNGTEAKLVRKVAGEKITVTFNINNSIPPTFDGEEEPS
QGQKVEEQEPELTSTPNFVVEVIKNDDGKKALVLDCHYPEDEVGQEDEAESDIFSIREVSFQSTGESEWKDTNYT
LNTDSLDWALYDHLMDFLADRGVDNTFADELVELSTALEHQEYITFLEDLKSFVKSQ

5067/6881
# FIGURE 4677

CCCGTTCCCTGGAGGCGCGCACAGACCCCTGGGAGGTGTACTTTCCGGGTGCAGACCGCGAATGGATCGCAGCGT
ATTCTGGGAAGTGTTGTTTTATCGACCGGCCCCACGTGGAGACAGATTTAGGCATCCAAGCGAAATGCGTGAGGC
CAGCCCGACCTGCACTGAGGGAGGTAAGTCTTGAGGGAAAGTTCTGGATGCCTGGGTTTACCCAGATGGAGGTGT
CCAATAGGCAATTAGATACACAAGTCTCAGGCTCTCCCCAGGTGCTAGATTTCCAGCAGCACCACCATTATGTTG
ACTTCTCGTCCCGCCCCCTTGGGCTTCAGAAATAATGGTGATTGGCTTTCCCTTGGTGACGCCCCTGCTTGGTGG
GCTGGCCTCGCCTTCGCCCCCCGACCTGGCACGAGCCTCTCGAGCTTCCGGGCCGTCTGCTCGGTGATTGGCCGA
AACAGTGAGTGGACGGCCGCGGATTGGCTGTGCTCAGCGGCGGGCTGAGCAACTGGAGTGAGGGGAGCAGTTGGG
CCAAGATGGCGGCCGCCGAGGGACCGGTGGGCGACGGCGAGCTGTGGCAGACCTGGCTTCCTAACCACGTCGTGT
TCTTGCGGCTCCGGGAGGGACTGAAAAACCAGAGTCCAACCGAAGCTGAGAAACCAGCTTCTTCGTCGTTGCCTT
CGTCGCCGCCGCCGCAGTTGCTGACGAGAAACGTGGTCTTTGGCCTCGGCGGAGAGCTTTTCCTGTGGGACGGAG
AAGACAGCTCCTTCTTAGTCGTTCGCCTTCGGGGCCCCAGCGGCGGCGGCGAAGAGCCCGCCCTGTCCCAGTACC
AGATGGAGTTTCGCTCTTGTTGCCCAGGCTGGAGTGCAATGGCGCCATCTCGGCTCACCGCAACCTCCACCTTCC
AGTTTCAAGCGATTCTTCTGCCTCAGCCCCCCCCGCGAGTAGCTGGGATTACAGAGATTGCTTTGCATAAATCCA
CCCCTGTTTGAAATCTATCAAGTCTTGTTAAGCCCAACACAACATCATGTAGCACTTATAGGAATAAAAGGACTT
ATGGTATTAGAATTACCTAAAGATGGGGGAAGA

5068/6881
# FIGURE 4678

GAGCAGTTGGGCCAAG<u>ATG</u>GCGGCCGCCGAGGGACCGGTGGGCGACGGCGAGCTGTGGCAGACCTGGCTTCCTAA
CCACGTCGTGTTCTTGCGGCTCCGGGAGGGACTGAAAAACCAGAGTCCAACCGAAGCTGAGAAACCAGCTTCTTC
GTCGTTGCCTTCGTCGCCGCCGCCGCAGTTGCTGACGAGAAACGTGGTCTTTGGCCTCGGCGGAGAGCTTTTCCT
GTGGGACGGAGAAGACAGCTCCTTCTTAGTCGTTCGCCTTCGGGGCCCCAGCGGCGGCGGCGAAGAGCCCGCCCT
GTCCCAGTACCAGAGATTGCTTTGCATAAATCCACCCCTGTTTGAAATCTATCAAGTCTTGTTAAGCCCAACACA
ACATCATGTAGCACTTATAGGAATAAAAGGACTTATGGTATTAGAATTACCTAAAAGATGGGGGAAGAATTCTGA
ATTTGAAGGTGGAAAATCAACAGTGAATTGTAGTACCACTCCAGTTGCGGAGAGATTTTTCACCAGTTCCACCTC
TCTGACTCTAAAGCATGCTGCATGGTATCCAAGTGAAATCCTGGATCCCCACGTAGTGCTGTTAACATCAGACAA
CGTAATCAGAATTTACTCACTACGTGAGCCGCAGACACCCACTAACGTGATAATACTTTCAGAAGCCGAAGAGGA
AAGTCTAGTACTCAATAAAGGAAGGGCGTATACCGCATCTCTAGGAGAGACAGCAGTTGCATTTGACTTTGGGCC
ATTGGCAGCAGTCCCAAAGACTCTATTTGGACAAAACGGCAAAGATGAAGTAGTGGCATACCCACTGTACATCTT
ATATGAAAATGGAGAGACTTTCCTGACATACATCAGTCTGTTACACAGCCCTGGAAATATTGGAAAGCTGTTGGG
TCCATTGCCCATGCATCCTGCGGCTGAAGATAACTATGGTTATGATGCGTGTGCTGTACTCTGCTTACCCTGTGT
CCCCAATATCTTAGTGATCGCTACTGAATCAGGAATGCTGTATCACTGTGTCGTGCTAGAAGGGGAAGAAGAAGA
TGACCACACGTCAGAAAAGTCCTGGGATTCCAGGATTGACCTCATTCCTTCTCTGTATGTGTTTGAATGTGTTGA
GTTGGAGCTTGCTTTGAAACTGGCATCTGGAGAGGATGACCCTTTTGATTCTGACTTTTCTTGTCCAGTCAAACT
TCATAGAGATCCCAAGTGTCCTTCAAGATATCACTGTACTCATGAAGCTGGTGTACATAGTGTTGGGCTAACTTG
GATTCATAAACTTCACAAATTTCTTGGATCAGATGAAGAAGATAAGGATAGTTTACAGGAACTCTCTACAGAACA
GAAATGCTTTGTTGAACACATCCTTTGTACGAAGCCATTGCCCTGCAGGCAGCCAGCTCCAATTCGAGGATTTTG
GATTGTACCTGACATTCTGGGACCCACGATGATCTGCATCACCAGTACCTATGAATGCCTCATATGGCCGTTATT
AAGTACAGTCCATCCAGCGTCTCCTCCCCTGCTTTGTACTCGAGAAGATGTTGAAGTGGCAGAGTCTCCCCTCCG
TGTTCTGGCTGAAACCCCAGATTCCTTTGAAAAGCATATTAGAAGCATTTTGCAACGTAGTGTTGCCAATCCAGC
ATTTTTGAAAGCTTCTGAAAAGGACATAGCCCCTCCTCCTGAAGAATGCCTTCAGCTCCTCAGCAGAGCCACCCA
GGTGTTCAGAGAGCAGTACATTCTCAAACAGGACTTGGCAAAGGAGGAGATTCAGCGGAGGGTCAAATTATTATG
TGACCAAAAAAAGAAACAACTAGAAGATCTCAGTTATTGTCGAGAAGAGAGGAAAAGTCTGCGGGAAATGGCTGA
GCGTTTAGCTGACAAATATGAGGAAGCTAAAGAAAAACAAGAGGGATATCATGAACAGGATGAAAAAACTACTTCA
CAGTTTTCACTCTGAGCTCCCAGTTCTCTCTGATAGTGAGCGAGACATGAAGAAAGAATTACAGCTGATACCTGA
TCAACTTCGACATTTGGGCAATGCCATCAAACAGGTTACTATGAAAAAGGATTATCAACAGCAAAAGATGGAGAA
GGTGTTGAGTCTTCCAAAACCCACCATTATTCTCAGTGCCTACCAGCGAAAGTGCATTCAGTCCATCCTGAAAGA
GGAGGGTGAACATATAAGGGAAATGGTGAAGCAAATCAATGATATCCGCAATCATGTAAACTTC<u>TGA</u>CACCACCA
GGAGCTGACTCACACCTGAACTGAACACCATTGAAGGCTTAAACCCATATTGTAAAACAGGTAGAATTATCTAAT
TTATAAAAAGGTGTTTTGATG

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# FIGURE 4679

MAAAEGPVGDGELWQTWLPNHVVFLRLREGLKNQSPTEAEKPASSSLPSSPPPQLLTRNVVFGLGGELFLWDGED
SSFLVVRLRGPSGGGEEPALSQYQRLLCINPPLFEIYQVLLSPTQHHVALIGIKGLMVLELPKRWGKNSEFEGGK
STVNCSTTPVAERFFTSSTSLTLKHAAWYPSEILDPHVVLLTSDNVIRIYSLREPQTPTNVIILSEAEEESLVLN
KGRAYTASLGETAVAFDFGPLAAVPKTLFGQNGKDEVVAYPLYILYENGETFLTYISLLHSPGNIGKLLGPLPMH
PAAEDNYGYDACAVLCLPCVPNILVIATESGMLYHCVVLEGEEEDDHTSEKSWDSRIDLIPSLYVFECVELELAL
KLASGEDDPFDSDFSCPVKLHRDPKCPSRYHCTHEAGVHSVGLTWIHKLHKFLGSDEEDKDSLQELSTEQKCFVE
HILCTKPLPCRQPAPIRGFWIVPDILGPTMICITSTYECLIWPLLSTVHPASPPLLCTREDVEVAESPLRVLAET
PDSFEKHIRSILQRSVANPAFLKASEKDIAPPPEECLQLLSRATQVFREQYILKQDLAKEEIQRRVKLLCDQKKK
QLEDLSYCREERKSLREMAERLADKYEEAKEKQEDIMNRMKKLLHSFHSELPVLSDSERDMKKELQLIPDQLRHL
GNAIKQVTMKKDYQQQKMEKVLSLPKPTIILSAYQRKCIQSILKEEGEHIREMVKQINDIRNHVNF

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# FIGURE 4680A

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GGTCAGCGGAGGGTTTGCTCCGTCTCTTGGTGAACTTGAACAGAGGCAGAGGCAAAAGCAAAACATTTCTGCGCC
AGGAGATGAGGGGCGGTAGAGCXCCTGGXAATGGAGATGTCCTTGACGCCTGGGCAGAGGCTGCAGCTGCAGGAC
CCTGTGGCCACTGGAGATAAGTAATGGTGCCXATTTGAACACCTACTGGAAACGGGGCAGGAACAGTGAGTGACC
CCAGGCGAGCACAGGCAGGTGCCAGGAGCCAGGATGCAAGGATGACGCCTCCGGAGGCCCTGGCCTCACTCCCAC
CTGGGCGCTAGGAGCCATCCCGGGGCTCCAGCCAGGAGCCCTGCTGCCCAGGGGCAXTGGCCAAACCTTTCTTCC
GACTCCAGAAGTTTCTCCGCCGAACACAGTTCCTGCTGTTXCTTCCTCAXCGGCTGCCTACCTGATGACCGGCAG
CCTGCTGCTGCTGCAGCGGGTCCGCGTXGGCTCTCCCACAGGGCCCCCGGGCACCCGGCCCCCTGCAGACCTTGC
CAGTGGCCGCCGTGGCGCTGGGCGTGGGCTTGCTGGACAGCAGAGCCCTGCACGACCCTCGAGTCAGCCCAGAGC
TGCTGCTGGGTGTGGACATGCTGCAGAGCCCCCTGACCCGGCXCCCGGCCCGGCCCCGCTGGCTCCGGAGCCGC
AACTCGGAGCTGCGTCAGTTGCGTCGCCGCTGGTTCCACCACTTCATGAGTGACTCCCAGGGACCGCCCGCCCTG
GGCCCCGAGGCTGCCAGGCCCGCCATCCACAGCCGAGGCACCTACATTGGATGCTTCAGTGACGATGGCCACGAG
AGGACTCTGAAAGGAGCTGTGTTTTATGACTTGAGAAAGATGACTGTCTCCCACTGCCAGGATGCGTGTGCTGAG
CGGTCCTATGTCTACGCCGGCTTGGAGGCCGGGGCGGAGTGTTACTGCGGGAACCGGCTGCCAGCGGTGAGCGTG
GGGCTGGAÀGAGTGTAACCATGAGTGCAAAGGCGAGAAGGGCTCTGTGTGCGGGGCTGTGGACCGGCTCTCCGTG
TACCGTGTGGACGAGCTGCAGCCGGGCTCCAGGAAGCGGCGGACCGCCACCTACCGCGGATGCTTCCGACTGCCA
GAGAACATCACACATGCCTTCCCCAGCTCCCTGATACAGGCCAATGTGACCGTGGGGACTTGCTCGGGCTTTTGT
TCCCAGAAAGAGTTCCCCTTGGCCATTCTCAGGGGCTGGGAATGCTACTGTGCTTACCCTACCCCCCGGTTCAAC
CTGCGGGATGCCATGGACAGCTCAGTATGTGGCCAGGACCCTGAGGCACAGAGGCTGGCAGAATACTGTGAGGTC
TACCAGACACCTGTGCAAGACACTCGTTGTACAGACAGGAGGTTCCTGCCTAACAAATCCAAAGTGTTTGTGGCT
TTGTCAAGCTTCCCAGGAGCCGGGAACACATGGGCACGGCACCTCATTGAGCATGCCACTGGCTTCTATACAGGG
AGCTACTACTTTGATGGAACCCTCTACAACAAAGGGTTCAAGGGCGAAAAGGACCACTGGCGGAGCCGACGCACC
ATCTGTGTCAAAACCCACGAGAGTGGCAGGAGGGAGATTGAGATGTTTGATTCAGCCATCCTGCTAATCCGGAAC
CCATACAGGTCCCTGGTGGCAGAATTCAACAGAAAATGTGCCGGGCACCTGGGATATGCAGCTGACCGCAACTGG
AAGAGCAAAGAGTGGCCGGACTTTGTCAACAGCTACGCCTCGTGGTGGTCCTCGCACGTCCTGGACTGGCTCAAG
TACGGGAAGCGGCTGCTGGTGGTGCACTACGAGGAGCTGCGGCGCAGCCTGGTGCCCACGTTACGGGAGATGGTG
GCCTTCCTCAACGTGTCTGTGAGCGAGGAGCGGCTGCTCTGCGTGGAGAACAACAAGGAGGGCAGCTTCCGGCGG
CGCGGCCGGCGCTCCCACGACCCTGAGCCCTTCACCCCGGAGATGAAAGACTTGATCAATGGCTACATCCGGACG
GTGGACCAAGCCCTGCGTGACCACAACTGGACGGGGCTGCCCAGGGAGTATGTGCCCAGATGATAGGCCTGGCCC
ACGCCGCCGCCCCCGCTGAGTGACGCAATCGCACCACGGGGCTGCGCTCCCCACTCTGATGCTCAGGCCCGTGGC
CTCACTGGGACGAACGGTGGGTGGGGGGCTCACCCTGGTGCTGCCTCCCGCACAAGGAGACCTGGACACAACAGA
CACACATCACAAGGCGAACACAAATGGACACACATACCTGGCCACGAACCCACACCTCCTCAGACACTCAGACAC
CACTCCAGGCTCATAGCCCCGTCTTGATGCAGAGAAGCCACCCACGTGGGGTGTGCCAGGCACCCCCAGATACAA
ATGCAGCCACGCACAGACGTAACACACAGGTGCCAGGCCGTGTGCTCCTGGAGGCTGGCTGGCTGTCTCTCTCAC
ACAGATACACGTGCGCTCCCTGGGATCCGGGAGGCCCTGGGCTTCCTGTGTGTAGCCCTGGCATAGACTTGCTCG
TCAGGGTGTTCGACTCTGGGATGCTGGGCCGGGCAGACATTTATGCTCTGAGCAGCAAGGACCATTGGGATGGAG
GTGGGCACAAAGACTGCTGCTTCCAGGGTGTGCGGCCCTGGCCGTGTGTCTGACATCCCATAAATGTGTGTGTGG
TGTGACTACGGGCACCACAAACTCCGCAGCCTTGCCTCTCTTTTCTCTGTGGCTGGGCTGGCTGCACCATGGGCA
GGGTTGAGGACTGCCCCCCACCCGCCCAAGCCAATGCAGACACTGACCTCAAGACCAGCCACACCAAGTCTGTG
CACTGCCCACCACCCCCTTCAACCCCTCCTACACCATGCTCCGGGGCCTGGGGCCTCCTTGCCTGGCTTCTTCCT
CCAGCTATCCTCAGGGAAGCTGGAGATTCAAGTCATGCCCCAGAAGCAAGGTGTAAGCATGGGGGCGTGGGGAAG
AGGGCAGGAGCTGAAGTTCCAGGGGAGCCCAGGACCCCTGGGGACCTGTACACTAGCAGGATGGGTCTTGGGAGT
TGGCATGGGGAGATTGTAAGGGCTGTATCTCCGCGATTACTGGTACTGGTGCTCCACCCATAGGGGCCCTGTTCT
CTCTGGGGTCCCACACTGGGGTCATGAGAGCTAGTTAGTACTCAGCCTGACCCCTAGGTCTGGTCCTGCCAGCCT
GGGATGGGGGTCAATGTATGCTACACATCTTGGGCTCACAAGTGAGGCTGTGGAGGCCAGGAGGTTCAAGTATGG
AGGGTAGGAGTGCAACCCAGGAGCAACGCTCAAGGTGGCCGAGATGCAGGGAGGATTGTGGCGATCCGGTTGCAC
ACTGGCCTCTGTGGAGGTCAGGGAGGTGGGAAGGTGGGTGGGCCTGAACTCAGGCAGCCCTTCAGTGGCTTCTTC
AGGCCTAGGATAACCCTGGCCAGGCCCCATGGTCCTGCTCTGGGTCAGCTGTCAGGGAGACCTCCCTTCAGCCTG
AGCCAAGCTGCATTGGGAGGAGAAGGCAGGGTGAGGGATCTGGGAGAGCAGGACGTTGAGATATCCTGACCCTCT
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5071/6881
# FIGURE 4680B

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GCTTCCTAGCCTGATGATGGGGAACCCAGAGCCACCCGCTATGAGCACAGGCCGGGGGTGGAAGGCCCAGTAGAG
CTGCCCTTCCCCAGATGGAAGCTTCCTCCAACCTTCAGTTTGGCCAGTGGGTGGGTTTGGGCATCTGTGCCCCTG
GTGGCCTCCAAATCCTTCCTGGGATTCCCCCAAACCCACACTGATGCGAAGCTGTTCTTGACCCTCCCATAGCAT
CAACTCAGTTCAGCTCAAAGCTAGAAACACCAAGGTCTTTGAAAATGTTTATTGGCTCAGGATAGCTTCGGCATC
CAATCTGCGAAGGCCCCTGATGGAGCTATTTCTTCCTAGTATCAGGAGCAATTGAGACCCCTCAGGAGTTTCCAC
ACTGCTGTGGACGGGATAGCCAGGGCAGACCTGCATCCCAGAGCAAGCCTAGATCCTTGAAAGCAATGTCAGGCG
TGGCAGTGGGGAAGCCATGGAGGCTGGGAAGGGCAAAGTGTGGAGAGAGGAGTGACCGGGACTGGAGCCAGGGTC
TGGGGAGAGCAACAGCACCAGGCTTTTCCTGGTAGTTGGATTGGTACATTCACTGCTGCCAGGTACCCAGAGATG
TCATCTCTCTCCAGGTAGAGCATCACCAGCTCCTGTGGCCTTGTAGATGACTCTGTACCTCAGTGAAGAGTGCAG
GCAAGTAGAGTGATGGGGTCAGTGTCCATCCAGTTTACGCTGAGTCAGTCCATACAGCAAGACACCTGGCACTTG
GCAGGTACTCCTGGATGTTGATGAGCAAGGAAGAGCAACGGCCCTGTCAGCTGGCAGTGGTCCTCACAGCCTTCA
TCCCAGGTCTGCCTACGTGGGAGATCTCATCAGAAACAGGAACGGGGATCTGTCTGTGCTTGCAGGAAAGTCCAT
TTGTTTTTCTCCAAGTTAGGTCTCATCTACAGCTCTTAGCTTCTCAGTAAAGAGGATACTCTCCCAACCAGCCAA
GGAATAAAAGCTGATCTGTATGTAGGGCAGAAGTGTGGCAAATGCATCAGGAACCGGTTAGAACAGAACAGAGAA
ACCCTGACTGTCTACAGATTCCAACTTTAATAGCAAGCCTGTGGAGTTACACAAACCTGTGTTAAAACATGTAAT
TTTTATGGATTTCATCTCCCGTTGTGGATCAATTTGGAAAAACCAAAATATGTAATTTTAAAAAACTAAAACACA
TCCTGGTAGTCCCAGTGATGTGTAAATGAGAGAGAAGAATAGACAGGCTTCCAAACCCTGGGAAGAAAGCTGCTT
AATTATGTGAACATCTTATAATGAAGTCTCTTGCAGCTAAAATTAGATTTTGAGTGCATGAATCTGTGATAATGT
TTGCATATCAGAATGCATTCTCCCCTTAAAAGTAGCAGTAGCCACTTGGTTCTTAGGGGGCCCCAAGAGGAGAGG
AGAAGTGCTGAGGTTGATGTTACGACTGCAAGAATTCTTGGGACACAGGTTTGTTTTCTGCTGACTTGCTCGGAA
ACCCATTGGAGGTATCTGAAATGTGATGACTCCAAAGGGGTTCATTTCACTATAGGGAGAAATTGATTCGTCTGA
CTTCCTATTTATCACCACTCAATATTGGGTGAGTTGGTCTGAACAAGGTGGGGATAAAGTAGAGTGGAAATAATG
TAGAGTCGTCAGACTGAAAGGCCAGGTTGTAGTCCCAGCTCTTATCTGCCATCTTGGACAAAGCTTTTCCCATCT
CCAGTCTCAGTTTCCCATCCATAAAATGGGGGAAGTGGTAGGTCTTGCTGATTGCATCCACATTCATTCCTCCAT
TTCCTTTCCCAGCAACCCCCCATTTCTGTTTGGGAATTCATATGATCTGCCAGAGCCTCTCCAGGGGTGGAATAC
ATGTCCTGGACTAAGCCAATGACACCTTCCATCTTTCCAGCTATGGTGACTGGGTTAGGTATGATCTTGTGAGTT
AAGACAATGAAGCCAGAGGGAATTTCAAGACTTATGGGAATGCTGGGTAGAAGCTGTTTTAATTCCCCTGTTGAA
TGTGAAAAAGGTAGTAGTATTCCTGGGTCTTTATGATGACCACCTTGGGCCTTGGGATCATGACCAGGAATCACG
TGAAGCTGACACCACTGAAGGGGAGAGTTGAGAGGCAGAAAGAGATCAAGTCCTTGGTGAAATTGTTTAAGTACAG
GATCAAGCCTTGCTTGAGATTGGCCTTACCTCTGGACTTTTTTTGTTATATGAGCTAATAAATTCTGTTTATTGT
TT
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5072/6881
# FIGURE 4681

MAKPFFRLQKFLRRTQFLLFFLTAAYLMTGSLLLLQRVRVALPQGPRAPGPLQTLPVAAVALGVGLLDSRALHDP
RVSPELLLGVDMLQSPLTRPRPGPRWLRSRNSELRQLRRRWFHHFMSDSQGPPALGPEAARPAIHSRGTYIGCFS
DDGHERTLKGAVFYDLRKMTVSHCQDACAERSYVYAGLEAGAECYCGNRLPAVSVGLEECNHECKGEKGSVCGAV
DRLSVYRVDELQPGSRKRRTATYRGCFRLPENITHAFPSSLIQANVTVGTCSGFCSQKEFPLAILRGWECYCAYP
TPRFNLRDAMDSSVCGQDPEAQRLAEYCEVYQTPVQDTRCTDRRFLPNKSKVFVALSSFPGAGNTWARHLIEHAT
GFYTGSYYFDGTLYNKGFKGEKDHWRSRRTICVKTHESGRREIEMFDSAILLIRNPYRSLVAEFNRKCAGHLGYA
ADRNWKSKEWPDFVNSYASWWSSHVLDWLKYGKRLLVVHYEELRRSLVPTLREMVAFLNVSVSEERLLCVENNKE
GSFRRRGRRSHDPEPFTPEMKDLINGYIRTVDQALRDHNWTGLPREYVPR

5073/6881
# FIGURE 4682

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CTTAGTGGTGTCGGGGTCTAGTGGACAGAGAAGACTCTTGGCCAGGCAGATGGCTTCTCGGTGGCAGAACATGGG
GACCTCCGTGCGCCGGAGATCTCTCCAGCACCAGGAGCAGCTGGAGGACAGCAAGGAGCTGCAGCCTGTGGTCAG
CCATCAGGAGACCTCTGTAGGGGCCCTGGGGTCCCTGTGCAGACAGTTCCAAAGGAGGCTGCCCCTGAGAACCGT
CAACCTCAACCTCCGCGCAGGGCCCTCCTGGAAACGCCTGGAAACCCCAGAGCCAGGTCAGCAGGGCCTCCAGGC
TGCAGCTCGCTCAGCTAAGAGTGCTTTGGGTGCCGTGTCCCAGAGAATCCAGGAGTCCTGCCAAAGTGGCACCAA
GTGGCTGGTGGAGACCCAGGTGAAGGCCAGGAGGCGGAAGAGAGGAGCACAGAAGGGCAGTGGATCCCCAACTCA
CAGCCTGAGCCAGAAGAGCACCCGGCTGTCTGGAGCCGCCCCTGCCCACTCAGCCGCAGACCCCTGGGAGAAGGA
GCATCACCGCCTCTCTGTCCGGATGGGCTCACATGCCCACCCATTACGGCGATCAAGGCGGGAGGCTGCCTTCCG
GAGCCCCTACTCCTCAACAGAGCCCCTCTGCTCTCCCAGCGAGTCTGACAGTGACCTAGAGCCTGTGGGGGCGGG
AATTCAGCATCTCCAGAAGCTGTCCCAAGAGCTAGATGAAGCCATTATGGCGGAAGAGAGTGGTGACATCGTCTC
TCTCATTCATGACTGAGGAAGTGCCTGCAGGAAACAAGCCCTGTCTGACCGCCAAGGCTTCATACTCAAGGATGT
CTATGCTTCCCCGTGTGCTTCCTGGAAAAAAACCCCCGGGAGTCGTCAGTACCCCTGGGCCACTGCTAACAAGCAC
CTAACAAGGGGCCCAGAGCCCCCTGCTCCAGCCACATCTGGACCCATCAGTGACTGCCTGCCATAGCCTGAGAGT
GTCTTGGGGAGACCTTGCAGAGGGGGAGAATTGTTCCTTCTGCTTTCCTAGGGGACTCTTGAGCTTAGAAACTCA
TCGTACACTTGACCTTGAGCCTTCTATTTGCCTCATCTATAACATGAAGTGCTAGCATCAGATATTTGAGAGCTC
TTAGCTCTGTACCCGGGTGCCTGGTTTTTGGGGAGTCATCCGCAGAGTCACTCACCCACTGTGTTTCTGGTGCCA
AGGCTCTTGAGGGCCCCACTCTCATCCCTCCTTTCCCTACCAGGGACTCGGAGGAAGGCATAGGAGATATTTCCA
GGCTTACGACCCTGGGCTCACGGGTACCTATTTATATGCTCAGTGCAGAGCACTGTGGATGTGCCAGGAGGGGTA
GCCCTGTTCAAGAGCAATTTCTGCCCTTTGTAAATTATTTAAGAAACCTGCTTTGTCATTTTATTAGAAAGAAAC
CAGCATGTGACTTTCCTAGATAACACTGCTTTCTCATAATAAAGACTATTTGCATTTG
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5074/6881
## FIGURE 4683

MASRWQNMGTSVRRRSLQHQEQLEDSKELQPVVSHQETSVGALGSLCRQFQRRLPLRTVNLNLRAGPSWKRLETP
EPGQQGLQAAARSAKSALGAVSQRIQESCQSGTKWLVETQVKARRRKRGAQKGSGSPTHSLSQKSTRLSGAAPAH
SAADPWEKEHHRLSVRMGSHAHPLRRSRREAAFRSPYSSTEPLCSPSESDSDLEPVGAGIQHLQKLSQELDEAIM
AEESGDIVSLIHD

5075/6881
# FIGURE 4684

<u>ATG</u>GATGCCGCTCTGCTCCTGAACGTGGAAGGGGTCAAGAAAACCATTCTGCACGGGGGCACGGGCGAGCTCCCA
AACTTCATCACCGGATCCCGAGTGATCTTTCATTTCCGCACCATGAAATGTGATGAGGAGCGGACAGTCATTGAC
GACAGTCGGCAGGTGGGCCAGCCCATGCACATCATCATCGGAAACATGTTCAAGCTCGAGGTCTGGGAGATCCTG
CTTACCTCCATGCGGGTGCACGAGGTGGCCGAGTTCTGGTGCGACACCATCCACACGGGGGTCTACCCCATCCTA
TCCCGGAGCCTGAGGCAGATGGCCCAGGGCAAGGACCCCACAGAGTGGCACGTGCACACGTGCGGGCTGGCCAAC
ATGTTCGCCTACCACACGCTGGGCTACGAGGACCTGGACGAGCTGCAGAAGGAGCCTCAGCCTCTGGTCTTTGTG
ATCGAGCTGCTGCAGGTTGATGCCCCGAGTGATTACCAGAGGGAGACCTGGAACCTGAGCAATCATGAGAAGATG
AAGGCGGTGCCCGTCCTCCACGGAGAGGGAAATCGGCTCTTCAAGCTGGGCCGCTACGAGGAGGCCTCTTCCAAG
TACCAGGAGGCCATCATCTGCCTAAGGAACCTGCAGACCAAGGAGAAGCCATGGGAGGTGCAGTGGCTGAAGCTG
GAGAAGATGATCAATACTCTGATCCTCAACTACTGCCAGTGCCTGCTGAAGAAGGAGGAGTACTATGAGGTGCTG
GAGCACACCAGTGATATTCTCCGGCACCACCCAGGCATCGTGAAGGCCTACTACGTGCGTGCCCGGGCTCACGCA
GAGGTGTGGAATGAGGCCGAGGCCAAGGCGGACCTCCAGAAAGTGCTGGAGCTGGAGCCGTCCATGCAGAAGGCG
GTGCGCAGGGAGCTGAGGCTGCTGGAGAACCGCATGGCGGAGAAGCAGGAGGAGGAGCGGCTGCGCTGCCGGAAC
ATGCTGAGCCAGGGTGCCACGCAGCCTCCCGCAGAGCCACCCACAGAGCCACCCGCACAGTCATCCACAGAGCCA
CCTGCAGAGCCACCCACAGCACCATCTGCAGAGCTGTCCGCAGGGCCCCCTGCAGAGCCAGCCACAGAGCCACCC
CCGTCCCCAGGGCACTCGCTGCAGCAC<u>**TGA**</u>CCCCCTGAGGCCCACAGCCACCCAGGCAGGGAGCAAGTGGCCTG
GTCACTTCTGGTTCGATTGACCAGGATCGTGGTGTCACTTTTTAAAATTTAAAATTAATTTTTGAAATCAAAGTC
AGACACACCCATGGTAAAAAAAAAAAAAAAAAAACAATCCCAAGGGTACAGAAGAGCTTATGAATAAAAGTAGTTTT
CTCCTCTACCCCTCTCATTCCTTCCGTGCCATGGTTTTAATTGACCCTGTTTTTAATTCTTCTGGTAGTTTTCTC
TATTTCCAAGTAATCTGTTTAAATCAGTTTCTAGATTTTACCCCATGTCAATGACAAATGAGGATTTGATGCTCT
GATCCTTTCTCATGCCTGATACCCCTCCCTGTCTCCCCATTTTGGATAGTTACATTTGGGGGTCATCTCGGTGAT
TTTTGTAACTTTACGCAGGACACTTAGAGCTCTCTAGAATCCCACTGACTTTAGTGGGTCTTGATGTAGGGTGGG
CAAGCCCCGACACTGGAGCTTAGCCTGAGAGGGTTCTTG

5076/6881
## FIGURE 4685

MDAALLLNVEGVKKTILHGGTGELPNFITGSRVIFHFRTMKCDEERTVIDDSRQVGQPMHIIIGNMFKLEVWEIL
LTSMRVHEVAEFWCDTIHTGVYPILSRSLRQMAQGKDPTEWHVHTCGLANMFAYHTLGYEDLDELQKEPQPLVFV
IELLQVDAPSDYQRETWNLSNHEKMKAVPVLHGEGNRLFKLGRYEEASSKYQEAIICLRNLQTKEKPWEVQWLKL
EKMINTLILNYCQCLLKKEEYYEVLEHTSDILRHHPGIVKAYYVRARAHAEVWNEAEAKADLQKVLELEPSMQKA
VRRELRLLENRMAEKQEEERLRCRNMLSQGATQPPAEPPTEPPAQSSTEPPAEPPTAPSAELSAGPPAEPATEPP
PSPGHSLQH

5077/6881
# FIGURE 4686

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GGCCAGCGCGGCCGGXGCCCCCTXCGXCCTXCCCACCCAGGGCGCTGAGCACGCACGXCCGCCGGCCTGGTGTTT
CGGXCGGGGGCCCGGGACCAGCCGCCGCCTTCTCCAGGCGCTCCTACTCTCTGGGCATCTGCAGTCCGAGCGGAA
GGGGCGGGAAXCGTCGGCGACGCCGAGGGAGCAAAGCCCACGATCGGCTTCCCGGGGCAGCGGACGGCTGCCTTC
CTCCCGGCGCAAACGCACCGCCCAGGAGGGGGCGGGCTCGGCGGGTCGGGGGGCGGGGCCGGGGTCCGAGCTCGG
GCCCXGCCTCCGCCTCCGCCAGCTCCTGTGAGCTGCCGAGTGCTAGGCACCCGGGCTCTTCTGGGGGCTCCAGAA
CTAAGCCACCCAGACACCATCATCCCGAAAACCCCAGCCCTTCTCCCATGGCAGGCTACTTGCCCCCCCAAAGGX
TACGCCCCTTCGCCCCCACCTCCCTACCCTGTCACCCCTGGGTACCCGGAGCCGGCGCTACATCCTGGGXCCCGG
GCAGGCGCCAGTGCCCGCCCAGGTACCTGCCCCAGXCTCCCGGCTTCGCCCTCTTCCCCTCGCCTGGCCCCGTGG
CCTTGGGGTCTGCTGCCCCCTTCTTGCCACTGCCAGGGGTGCCTTCTGGCCTCGAATTCCTGGTGCAGATTGATC
AGATTTTGATTCACCAGAAGGCTGAGCGAGTGGAAAATGGAAGTACAGGCTCCACCAGGCACCACCATTGGCCAC
GTGCTACAGACCTGGCATCCCTTCCTCCCCAAGTTCTCCATCCAGGATGCCGATCGCCAGACAGTCTTGCGAGTG
GTGGGGCCCTGCTGGACCTGTGGCTGTGGCACAGACACCAACTTTGAGGTGAAGACXTCGGGATGAATCCCGCAG
TGTGGGCCGCATCAGCAAGCAGTGGGGGGGCCTGGTCCGAGAAGCCCTCACAGATGCAGATGACTTTGGCCTACA
GTTCCCGCTGGACCXXXTGGAXTXGXXXTGXAGGGTGAAGGCTGTGCTGCTGGGAGCCACATTCCTCATTGACTA
CATGTTCTTTGAGAAGCGAGGAGGCGCTGGGCCCTCTGCCATCACCAGTTAGAGGCCACCATGGTGTGAGGAGAC
CATCACCTCGACCAGAACTCCAGATGGTCACCTGCCCTGGCCCCTCCTCTGGGCAGCCCCTTTCCTCCATGTACA
CTGCAGGGGACAGXAAGGGGGGCCCCATCCCTACCCTACTCCCTGGCCGCCTGXCCCCTGTGGTTCCCAAGGAGG
GGTATGTATGAGAGCCGCTCTCCTGCTACCTXCCCACCACTGTCCCAGCAGTCCCTCGGCACACAGGCATATCAG
CTTTCACACTTTCCCCATGCACTCTCTCCCACCCCCTTCCAGGGCCTCTGCTCCAAAGGAGGCCTCTGGAACCCA
GGACTCTGGGGTTTTACAAGXAGGGCTGGGGTGTGGAAGGGCAAGCTGCACCAAAGACGGTGGATATAGCCACCG
CCCCCCCGCCGCTGCCTAGCATCTGCTTGGCCAATTAGTTCAGCCTCAGACCATGGCACTTTGAGGGGGTCTCTA
CCTCCCCATCAACAGCTGCAGGGGGACCCCAGTGCCAACTTCCTCTCCCAXCTAGGGCCCTGCCTTCAGCTGGTG
CTTGCTGCGATTCCTGTGCCTTATGTAACTGCCCTTCCTTCCCTTGCCCTXAGGAAAAAGGCTGCATCTTTATAT
GTTACATTCATATAAACTTTGTAACTTTTTGGACATTG
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5078/6881
# FIGURE 4687

CTAGTTTCTAAGGATC**ATG**TCTGCGAGCCAGGATTCCCGATCCAGAGACAATGGCCCCGATGGGATGGAGCCCGA
AGGCGTCATCGAGAGTAACTGGAATGAGATTGTTGACAGCTTTGATGACATGAACCTCTCGGAGTCCCTTCTCCG
TGGCATCTACGCCTATGGTTTTGAGAAGCCCTCTGCCATCCAGCAGCGAGCCATTCTACCTTGTATCAAGGGTTA
TGATGTGATTGCTCAAGCCCAATCTGGGACTGGGAAAACGGCCACATTTGCCATATCGATTCTGCAGCAGATTGA
ATTAGATCTAAAAGCCACCCAGGCCTTGGTCCTAGCACCCACTCGAGAATTGGCTCAGCAGATACAGAAGGTGGT
CATGGCACTAGGAGACTACATGGGCGCCTCCTGTCACGCCTGTATCGGGGGCACCAACGTGCGTGCTGAGGTGCA
GAAACTGCAGATGGAAGCTCCCCACATCATCGTGGGTACCCCTGGCCGTGTGTTTGATATGCTTAACCGGAGATA
CCTGTCCCCCAAATACATCAAGATGTTTGTACTGGATGAAGCTGACGAAATGTTAAGCCGTGGATTCAAGGACCA
GATCTATGACATATTCCAAAAGCTCAACAGCAACACCCAGGTAGTTTTGCTGTCAGCCACAATGCCTTCTGATGT
GCTTGAGGTGACCAAGAAGTTCATGAGGGACCCCATTCGGATTCTTGTCAAGAAGGAAGAGTTGACCCTGGAGGG
TATCCGCCAGTTCTACATCAACGTGGAACGAGAGGAGTGGAAGCTGGACACACTATGTGACTTGTATGAAACCCT
GACCATCACCCAGGCAGTCATCTTCATCAACACCCGGAGGAAGGTGGACTGGCTCACCGAGAAGATGCATGCTCG
AGATTTCACTGTATCCGCCATGCATGGAGATATGGACCAAAAGGAACGAGACGTGATTATGAGGGAGTTTCGTTC
TGGCTCTAGCAGAGTTTTGATTACCACTGACCTGCTGGCCAGAGGCATTGATGTGCAGCAGGTTTCTTTAGTCAT
CAACTATGACCTTCCCACCAACAGGGAAAACTATATCCACAGAATCGGTCGAGGTGGACGGTTTGGCCGTAAAGG
TGTGGCTATTAACATGGTGACAGAAGAAGACAAGAGGACTCTTCGAGACATTGAGACCTTCTACAACACCTCCAT
TGAGGAAATGCCCCTCAATGTTGCTGACCTCATC**TGA**GGGGCTGTCCTGCCACCCAGCCCCAGCCAGGGCTCAAT
CTCTGGGGGCTGAGGAGCAGCAGGAGGGGGGAGGGAAGGGAGCCAAGGGATGGACATCTTGTCATTTTTTTTCTT
TGAATAAATGTCACTTTTTGAGGCAAAAGAAGG

5079/6881
# FIGURE 4688

MSASQDSRSRDNGPDGMEPEGVIESNWNEIVDSFDDMNLSESLLRGIYAYGFEKPSAIQQRAILPCIKGYDVIAQ
AQSGTGKTATFAISILQQIELDLKATQALVLAPTRELAQQIQKVVMALGDYMGASCHACIGGTNVRAEVQKLQME
APHIIVGTPGRVFDMLNRRYLSPKYIKMFVLDEADEMLSRGFKDQIYDIFQKLNSNTQVVLLSATMPSDVLEVTK
KFMRDPIRILVKKEELTLEGIRQFYINVEREEWKLDTLCDLYETLTITQAVIFINTRRKVDWLTEKMHARDFTVS
AMHGDMDQKERDVIMREFRSGSSRVLITTDLLARGIDVQQVSLVINYDLPTNRENYIHRIGRGGRFGRKGVAINM
VTEEDKRTLRDIETFYNTSIEEMPLNVADLI

5080/6881
# FIGURE 4689

GAGCTAGCTTTGCAAT**ATG**GCGGCCGAGGCGGACGGACCGCTTAAACGGCTGCTCGTGCCGATTCTTTTACCTGA
GAAATGCTACGACCAACTTTTCGTTCAGTGGGACTTGCTTCACGTCCCCTGCCTCAAGATTCTCCTCAGCAAAGG
CCTGGGGCTGGGCATTGTGGCTGGCTCACTTCTAGTAAAGCTGCCCCAGGTGTTTAAAATCCGGGGAGCCAAGAG
TGCTGAAGGGTTGAGTCTCCAGTCTGTAATGCTGGAGCTAGTGGCATTGACTGGGACCATGGTCTACAGCATCAC
TAACAACTTCCCATTCAGCTCTTGGGGTGAAGCCTTATTCCTGATGCTCCAGACGATCACCATCTGCTTCCTGGT
CATGCACTACAGAGGACAGACTGTGAAAGGTGTCGCTTTCCTCGCTTGCTACGGCCTGGTCCTGCTGGTGCTTCT
CTCACCTCTGACGCCCTTGACTGTAGTCACCCTGCTCCAGGCCTCCAATGTGCCTGCTGTGGTGGTGGGGAGGCT
TCTCCAGGCAGCCACCAACTACCACAACGGGTACACAGGCCAGCTCTCAGCCATCACAGTCTTCCTGCTGTTTGG
GGGCTCCCTGGCCCGAATCTTCACTTCCATTCAGGAAACCGGAGATCCCCTGATGGCTGGGACCTTTGTGGTCTC
CTCTCTCTGCAACGGCCTCATCGCCGCCCAGCTGCTCTTCTACTGGAATGCAAAGCCTCCCCACAAGCAGAAAAA
GGCGCAG**TAG**AGCCAGCTACTGGAGTCATTCCGTTTCCACTCATTCACCCAACCTCAGGGTTCTCCCCATCTGAG
CCAGCCTGCTGGTGTGACTTACTCATCCTCCATTCCTCTGCACTTGCAGACTTTCTGAGCCAGGGTTTTCTTTTA
GTGGAAACAAATGGTTGATGGATCCAGATCCTTAGAAAAGGAGAGGATGGGGGTAGAGTCTCCCAAGCCAAAATT
TTGACATTTGAGTGCTTTCGTAAGCCCTGTACATGTACTATTAATTCAGTCATTCAGCCAAGCCTCCTCCTCTAG
CAGCAATTTCCAGCTGTTTAACACTATCCTGGGCAAATGTTTTACCCTGTCCTCCAGCCTCCCTGCTTCCCTTCT
GGCCCTGGAAGACTGAGTCTGGACGGCAGAGTGGAGGGACTGGGAGGCTGTGGCTGCCTCCCTCCCTCAGCCCGG
CTGGGACTGTCTCCCGGACCCCAGTGCTGGGGTGGGGGAAGGGGGACGGAGAATGACTCAGGCAGGGCCCCAGGG
TGGGGTGAGGAGGTTCCTGCTCTGGCAGGTCTAGGCGGAAGGGAGTGGAGATGGGGCTGGTTGCTGCTGCAGTGA
GGGGAACAGATGGGACAATAAAGACTGGAGACTCAGTTGAATAATGCAAAAAAAAAAAAA

5081/6881
## FIGURE 4690

MAAEADGPLKRLLVPILLPEKCYDQLFVQWDLLHVPCLKILLSKGLGLGIVAGSLLVKLPQVFKIRGAKSAEGLS
LQSVMLELVALTGTMVYSITNNFPFSSWGEALFLMLQTITICFLVMHYRGQTVKGVAFLACYGLVLLVLLSPLTP
LTVVTLLQASNVPAVVVGRLLQAATNYHNGYTGQLSAITVFLLFGGSLARIFTSIQETGDPLMAGTFVVSSLCNG
LIAAQLLFYWNAKPPHKQKKAQ

5082/6881
# FIGURE 4691

TTAAGGAGGTGCAGTCTTATGGGAGGGACAGGGGCGGAGTCAGTCTTTAAAAGCTGTTCCCAGGTCTGGCCCGCC
TGCCACAAACGCTGAGCCCAGGTGGGAGAGGTCTGGCCTATCCGCGCCTGGCAGCTGTCGGAACTCCGGAGACCA
CAAAGGGGTTTATGGTTTACCCCCTCCACGGAAGGTCGGTCTGATCGCAGCTGCGGGTCGGGGAGAGGGACCGGG
GGTCCCCCAGTCAGTAGGCCTCAGAACACCTCTTCAGTGCCGGGGCACCAGACAGCGGATTTTGCATTCGACTCT
CCCCAAAGTGTGCCGAACAGGTTGGAAGCAAAGGCTCCGGTTTAAGCTCTGGGCTTGGGGATAAAATACACTTTT
TAAGGACCCAAGTTCCTCGGCAACGACTCCAGACTGGGAAGACCTTTCCATTTTCAGGATCGACGCTTCACGTTG
AGGGGAGGGCATTCAGGACGCCCTCTTAAGGCTTCTCCCAACCC**ATG**GCGCTACCAGGCTCCTCACAGGACCAGG
CCTGGAGCCTGGAGCCTCCGGCTGCCACGGCTGCTGCCTCCTCATCTTCGGGACCCCAGGAGCGGGAGGGCGCTG
GGAGCCCCGCGGCCCCCGGGACGCTGCCCCTGGAGAAGGTGAAGCGGCCGATGAACGCGTTCATGGTGTGGAGCT
CCGCTCAGCGCCGCCAGATGGCGCAGCAGAACCCCAAGATGCACAACTCCGAGATCTCCAAGCGCCTGGGCGCGC
AGTGGAAGCTGCTGGACGAGGACGAGAAGCGGCCCTTCGTGGAGGAGGCCAAGCGGCTCCGCGCCCGACACCTGC
GCGACTACCCCGACTACAAGTACCGGCCTCGGCGCAAGGCCAAGAGCTCGGGCGCCGGACCTTCCCGCTGCGGAC
AGGGAAGAGGCAACCTGGCCAGCGGCGGCCCGCTCTGGGGGCCGGGGTACGCGACCACCCAACCGAGCAGAGGCT
TTGGGTACAGACCCCCCAGCTACTCGACAGCCTACCTGCCTGGCAGCTATGGCTCTTCCCACTGCAAACTGGAAG
CCCCCTCACCGTGCTCCCTCCCTCAGAGTGACCCTAGGCTCCAGGGGGAACTGCTGCCCACCTATACCCACTACC
TGCCCCCTGGCTCTCCCACTCCATACAACCCTCCCCTTGCTGGTGCCCCCATGCCCCTAACCCACCTC**TAA**CCCT
CATGGACGCAGACCTCACGGGACGGGCCTCATCCTCCTTTTTTAATCCAGCAGCATCCCCTACCCCAGGCTGTCA
ACCCTTTCTCCTGTTGGACTACAGTTCAGAGGCAGCCTGCAGTCCTCCCATGATAGCCAGGGAGAGCCGCACAAC
ATACAATTATATTTTTGGTAGTATTAAACAGTTTTGTATTATTC

5083/6881
## FIGURE 4692

MALPGSSQDQAWSLEPPAATAAASSSSGPQEREGAGSPAAPGTLPLEKVKRPMNAFMVWSSAQRRQMAQQNPKMH
NSEISKRLGAQWKLLDEDEKRPFVEEAKRLRARHLRDYPDYKYRPRRKAKSSGAGPSRCGQGRGNLASGGPLWGP
GYATTQPSRGFGYRPPSYSTAYLPGSYGSSHCKLEAPSPCSLPQSDPRLQGELLPTYTHYLPPGSPTPYNPPLAG
APMPLTHL

5084/6881
# FIGURE 4693

ACTTGTCATGGCGACTGTCCAGCTTTGTGCCAGGAGCCTCGCAGGGGTTGATGGGATTGGGGTTTTCCCCTCCCA
TGTGCTCAAGACTGGCGCTAAAAGTTTTGAGCTTCTCAAAAGTCTAGAGCCACCGTCCAGGGAGCAGGTAGCTGC
TGGGCTCCGGGGACACTTTGCGTTCGGGCTGGGAGCGTGCTTTCCACGACGGTGACACGCTTCCCTGGATTGGCA
GCCAGACTGCCTTCCGGGTCACTGCCATGGAGGAGCCGCAGTCAGATCCTAGCGTCGAGCCCCCTCTGAGTCAGG
AAACATTTTCAGACCTATGGAAACTACTTCCTGAAAACAACGTTCTGTCCCCCTTGCCGTCCCAAGCAATGGATG
ATTTGATGCTGTCCCCGGACGATATTGAACAATGGTTCACTGAAGACCCAGGTCCAGATGAAGCTCCCAGAATGC
CAGAGGCTGCTCCCCGCGTGGCCCCTGCACCAGCAGCTCCTACACCGGCGGCCCCTGCACCAGCCCCTCCTGGC
CCCTGTCATCTTCTGTCCCTTCCCAGAAAACCTACCAGGGCAGCTACGGTTTCCGTCTGGGCTTCTTGCATTCTG
GGACAGCCAAGTCTGTGACTTGCACGTACTCCCCTGCCCTCAACAAGATGTTTTGCCAACTGGCCAAGACCTGCC
CTGTGCAGCTGTGGGTTGATTCCACACCCCCGCCCGGCACCCGCGTCCGCGCCATGGCCATCTACAAGCAGTCAC
AGCACATGACGGAGGTTGTGAGGCGCTGCCCCCACCATGAGCGCTGCTCAGATAGCGATGGTCTGGCCCCTCCTC
AGCATCTTATCCGAGTGGAAGGAAATTTGCGTGTGGAGTATTTGGATGACAGAAACACTTTTCGACATAGTGTGG
TGGTGCCCTATGAGCCGCCTGAGGTTGGCTCTGACTGTACCACCATCCACTACAACTACATGTGTAACAGTTCCT
GCATGGGCGGCATGAACCGGAGGCCCATCCTCACCATCATCACACTGGAAGACTCCAGTGGTAATCTACTGGGAC
GGAACAGCTTTGAGGTGCGTGTTTGTGCCTGTCCTGGGAGAGACCGGCGCACAGAGGAAGAGAATCTCCGCAAGA
AAGGGGAGCCTCACCACGAGCTGCCCCCAGGGAGCACTAAGCGAGCACTGCCCAACAACACCAGCTCCTCTCCCC
AGCCAAAGAAGAAACCACTGGATGGAGAATATTTCACCCTTCAGATCCGTGGGCGTGAGCGCTTCGAGATGTTCC
GAGAGCTGAATGAGGCCTTGGAACTCAAGGATGCCCAGGCTGGGAAGGAGCCAGGGGGGAGCAGGGCTCACTCCA
GCCACCTGAAGTCCAAAAAGGGTCAGTCTACCTCCCGCCATAAAAAACTCATGTTCAAGACAGAAGGGCCTGACT
CAGACTGACATTCTCCACTTCTTGTTCCCCACTGACAGCCTCCCACCCCCATCTCTCCCTCCCCTGCCATTTTGG
GTTTTGGGTCTTTGAACCCTTGCTTGCAATAGGTGTGCGTCAGAAGCACCCAGGACTTCCATTTGCTTTGTCCCG
GGGCTCCACTGAACAAGTTGGCCTGCACTGGTGTTTTGTTGTGGGGAGGAGGATGGGGAGTAGGACATACCAGCT
TAGATTTTAAGGTTTTTACTGTGAGGGATGTTTGGGAGATGTAAGAAATGTTCTTGCAGTTAAGGGTTAGTTTAC
AATCAGCCACATTCTAGGTAGGGGCCCACTTCACCGTACTAACCAGGGAAGCTGTCCCTCACTGTTGAATTTTCT
CTAACTTCAAGGCCCATATCTGTGAAATGCTGGCATTTGCACCTACCTCACAGAGTGCATTGTGAGGGTTAATGA
AATAATGTACATCTGGCCTTGAAACCACCTTTTATTACATGGGGTCTAGAACTTGACCCCCTTGAGGGTGCTTGT
TCCCTCTCCCTGTTGGTCGGTGGGTTGGTAGTTTCTACAGTTGGGCAGCTGGTTAGGTAGAGGGAGTTGTCAAGT
CTCTGCTGGCCCAGCCAAACCCTGTCTGACAACCTCTTGGTGAACCTTAGTACCTAAAAGGAAATCTCACCCCAT
CCCACACCCTGGAGGATTTCATCTCTTGTATATGATGATCTGGATCCACCAAGACTTGTTTTATGCTCAGGGTCA
ATTTCTTTTTTCTTTTTTTTTTTTTTTCTTTTTCTTTGAGACTGGGTCTCGCTTTGTTGCCCAGGCTGGAGT
GGAGTGGCGTGATCTTGGCTTACTGCAGCCTTTGCCTCCCCGGCTCGAGCAGTCCTGCCTCAGCCTCCGGAGTAG
CTGGGACCACAGGTTCATGCCACCATGGCCAGCCAACTTTTGCATGTTTTGTAGAGATGGGGTCTCACAGTGTTG
CCCAGGCTGGTCTCAAACTCCTGGGCTCAGGCGATCCACCTGTCTCAGCCTCCCAGAGTGCTGGGATTACAATTG
TGAGCCACCACGTCCAGCTGGAAGGGTCAACATCTTTTACATTCTGCAAGCACATCTGCATTTTCACCCCACCCT
TCCCCTCCTTCTCCCTTTTTATATCCCATTTTTATATCGATCTCTTATTTTACAATAAAACTTTGCTGCCA

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# FIGURE 4694

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AGTGCTTTCAAAAGAATTGGCGTCCGCTGTTCGCCTCTCCTCCCGGGAGTCTTCTGCCTACTCCCAGAAGAGGAG
GGAAGCACAXGGXTXGGGTTTCTTTAGCTCTGCGTCGGATCCCTGAGAACTTCGXAXAGXCCATCCTGGCTGAGG
CTAATCTCCGCTGTGCTTCCTCTGCAGTATGAAGACTTTGGAGACTCAACCGTTAGCTCCGGACTGCTGTCCTTC
AGACCAGGACCCAGCTCCAGCCCATCCTTCTCCCCACGCTTCCCCGATGAATAAAAATGCGGACTCTGAACTGAT
GCCACCGCCTCCCGAAAGGGGGGATCCGCCCCGGTTGTCCCCAGATCCTGTGGCTGGCTCAGCTGTGTCCCAGGA
GCTACGGGAGGGGGACCCAGTTTCTCTCTCCACTCCCCTGGAAACAGAGTTTGGTTCCCCTAGTGAGTTGAGTCC
TCGAATCGAGGAGCAAGAACTTTCTGAAAATACAAGCCTTCCTGCAGAAGAAGCAAACGGGAGCCTTTCTGAAGA
AGAAGCGAACGGGCCAGAGTTGGGGTCTGGAAAAGCCATGGAAGATACCTCTGGGGAACCCGCTGCAGAGGACGA
GGGAGACACCGCTTGGAACTACAGCTTCTCCCAGCTGCCTCGATTTCTCAGTGGTTCCTGGTCAGAGTTCAGCAC
CCAACCTGAGAACTTCTTGAAAGGCTGTAAGTGGGCTCCTGACGGTTCCTGCATCTTGACCAATAGTGCTGATAA
CATCTTGCGAATTTATAACCTGCCCCCAGAGCTGTACCATGAGGGGGAGCAGGTGGAATATGCAGAAATGGTCCC
TGTCCTTCGAATGGTGGAAGGTGATACCATCTATGATTACTGCTGGTATTCTCTGATGTCCTCAGCCCAGCCAGA
CACCTCCTACGTGGCCAGCAGCAGCCGGGAGAACCCGATTCATATCTGGGACGCATTCACTGGAGAGCTCCGGGC
TTCCTTTCGCGCCTACAACCACCTGGATGAGCTGACGGCAGCCCATTCGCTCTGCTTCTCCCCGGATGGCTCCCA
·GCTCTTCTGTGGCTTCAACCGGACTGTGCGTGTTTTTTCCACGGCCCGGCCTGGCCGAGACTGCGAGGTCCGAGC
CACATTTGCAAAAAAGCAGGGCCAGAGCGGCATCATCTCCTGCATAGCCTTCAGCCCAGCCCAGCCCCTCTATGC
CTGTGGCTCCTACGGCCGCTCCCTGGGTCTGTATGCCTGGGATGATGGCTCCCCTCTCGCCTTGCTGGGAGGGCA
CCAAGGGGGCATCACCCACCTCTGCTTTCATCCCGATGGCAACCGCTTCTTCTCAGGAGCCCGCAAGGATGCTGA
GCTCCTGTGCTGGGATCTCCGGCAGTCTGGTTACCCACTGTGGTCCCTGGGTCGAGAGGTGACCACCAATCAGCG
CATCTACTTCGATCTGGACCCGACCGGGCAGTTCCTAGTGAGTGGCAGCACGAGCGGGGCTGTCTCTGTGTGGGA
CACGGACGGGCCTGGCAATGATGGGAAGCCGGAGCCCGTGTTGAGTTTTCTGCCCCAGAAGGACTGCACCAATGG
CGTGAGCCTGCACCCTAGCCTGCCTCTCCTGGCCACTGCCTCCGGTCAGCGTGTGTTTCCTGAGCCCACAGAGAG
TGGGGACGAAGGAGAGGAGCTGGGCCTTCCCTTGCTCTCCACGCGCCACGTCCACCTTGAATGTCGGCTTCAGCT
CTGGTGGTGTGGGGGGGCGCCAGACTCCAGCATCCCTGATGATCACCAGGGCGAGAAAGGGCAGGGAGGAACGGA
GGGAGGTGTGGGTGAGCTGATATAAAAAGGTTTTATGAT
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5086/6881
# FIGURE 4695

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ACTTGTCATGGCGACTGTCCAGCTTTGTGCCAGGAGCCTCGCAGGGGTTGATGGGATTGGGGTTTTCCCCTCCCA
TGTGCTCAAGACTGGCGCTAAAAGTTTTGAGCTTCTCAAAAGTCTAGAGCCACCGTCCAGGGAGCAGGTAGCTGC
TGGGCTCCGGGGACACTTTGCGTTCGGGCTGGGAGCGTGCTTTCCACGACGGTGACACGCTTCCCTGGATTGGCA
GCCAGACTGCCTTCCGGGTCACTGCCATGGAGGAGCCGCAGTCAGATCCTAGCGTCGAGCCCCCTCTGAGTCAGG
AAACATTTTCAGACCTATGGAAACTACTTCCTGAAAACAACGTTCTGTCCCCCTTGCCGTCCCAAGCAATGGATG
ATTTGATGCTGTCCCCGGACGATATTGAACAATGGTTCACTGAAGACCCAGGTCCAGATGAAGCTCCCAGAATGC
CAGAGGCTGCTCCCCCCGTGGCCCCTGCACCAGCAGCTCCTACACCGGCGGCCCCTGCACCAGCCCCCTCCTGGC
CCCTGTCATCTTCTGTCCCTTCCCAGAAAACCTACCAGGGCAGCTACGGTTTCCGTCTGGGCTTCTTGCATTCTG
GGACAGCCAAGTCTGTGACTTGCACGTACTCCCCTGCCCTCAACAAGATGTTTTGCCAACTGGCCAAGACCTGCC
CTGTGCAGCTGTGGGTTGATTCCACACCCCCGCCCGGCACCCGCGTCCGCGCCATGGCCATCTACAAGCAGTCAC
AGCACATGACGGAGGTTGTGAGGCGCTGCCCCCACCATGAGCGCTGCTCAGATAGCGATGGTCTGGCCCCTCCTC
AGCATCTTATCCGAGTGGAAGGAAATTTGCGTGTGGAGTATTTGGATGACAGAAACACTTTTCGACATAGTGTGG
TGGTGCCCTATGAGCCGCCTGAGGTTGGCTCTGACTGTACCACCATCCACTACAACTACATGTGTAACAGTTCCT
GCATGGGCGGCATGAACCGGAGGCCCATCCTCACCATCATCACACTGGAAGACTCCAGTGGTAATCTACTGGGAC
GGAACAGCTTTGAGGTGCGTGTTTGTGCCTGTCCTGGGAGAGACCGGCGCACAGAGGAAGAGAATCTCCGCAAGA
AAGGGGAGCCTCACCACGAGCTGCCCCCAGGGAGCACTAAGCGAGCACTGCCCAACAACACCAGCTCCTCTCCCC
AGCCAAAGAAGAAACCACTGGATGGAGAATATTTCACCCTTCAGATCCGTGGGCGTGAGCGCTTCGAGATGTTCC
GAGAGCTGAATGAGGCCTTGGAACTCAAGGATGCCCAGGCTGGGAAGGAGCCAGGGGGGAGCAGGGCTCACTCCA
GCCACCTGAAGTCCAAAAAGGGTCAGTCTACCTCCCGCCATAAAAAACTCATGTTCAAGACAGAAGGGCCTGACT
CAGACTGACATTCTCCACTTCTTGTTCCCCACTGACAGCCTCCCACCCCCATCTCTCCCTCCCCTGCCATTTTGG
GTTTTGGGTCTTTGAACCCTTGCTTGCAATAGGTGTGCGTCAGAAGCACCCAGGACTTCCATTTGCTTTGTCCCG
GGGCTCCACTGAACAAGTTGGCCTGCACTGGTGTTTTGTTGTGGGGAGGAGGATGGGGAGTAGGACATACCAGCT
TAGATTTTAAGGTTTTTACTGTGAGGGATGTTTGGGAGATGTAAGAAATGTTCTTGCAGTTAAGGGTTAGTTTAC
AATCAGCCACATTCTAGGTAGGGGCCCACTTCACCGTACTAACCAGGGAAGCTGTCCCTCACTGTTGAATTTTCT
CTAACTTCAAGGCCCATATCTGTGAAATGCTGGCATTTGCACCTACCTCACAGAGTGCATTGTGAGGGTTAATGA
AATAATGTACATCTGGCCTTGAAACCACCTTTTATTACATGGGGTCTAGAACTTGACCCCCTTGAGGGTGCTTGT
TCCCTCTCCCTGTTGGTCGGTGGGTTGGTAGTTTCTACAGTTGGGCAGCTGGTTAGGTAGAGGGAGTTGTCAAGT
CTCTGCTGGCCCAGCCAAACCCTGTCTGACAACCTCTTGGTGAACCTTAGTACCTAAAAGGAAATCTCACCCCAT
CCCACACCCTGGAGGATTTCATCTCTTGTATATGATGATCTGGATCCACCAAGACTTGTTTTATGCTCAGGGTCA
ATTTCTTTTTTCTTTTTTTTTTTTTTTTCTTTTTCTTTGAGACTGGGTCTCGCTTTGTTGCCCAGGCTGGAGT
GGAGTGGCGTGATCTTGGCTTACTGCAGCCTTTGCCTCCCCGGCTCGAGCAGTCCTGCCTCAGCCTCCGGAGTAG
CTGGGACCACAGGTTCATGCCACCATGGCCAGCCAACTTTTGCATGTTTTGTAGAGATGGGGTCTCACAGTGTTG
CCCAGGCTGGTCTCAAACTCCTGGGCTCAGGCGATCCACCTGTCTCAGCCTCCCAGTGCTGGGATTACAATTG
TGAGCCACCACGTCCAGCTGGAAGGGTCAACATCTTTTACATTCTGCAAGCACATCTGCATTTTCACCCCACCCT
TCCCCTCCTTCTCCCTTTTTATATCCCATTTTTATATCGATCTCTTATTTTACAATAAAACTTTGCTGCCA
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5087/6881
# FIGURE 4696

GCCGCTGAGAAAGCGCAGAGAAGGCGGGCCCCGTCTGAGGTCTGGCAGTCAGAGACAGCCGGGCGCCCACGGCCC
GAGCGCCCACGGCAGCACCATGCCCGCACTCCTGGAGCGCCCCAAGCTTTCCAACGCCATGGCCAGGGCGCTGCA
CCGGCACATTATGATGGAGCGGGAGCGCAAGCGGCAGGAGGAAGAAGAGGTGGATAAGATGATGGAACAGAAGAT
GAAGGAAGAACAGGAGAGAAGGAAGAAAAAGGAGATGGAAGAGAGAATGTCATTAGAGGAGACCAAGGAACAAAT
TCTGAAGTTGGAGGAGAAGCTTTTGGCTCTACAGGAAGAGAAGCACCAGCTTTTCCTGCAGCTCAAGAAAGTTTT
ACATGAGGAAGAAAAACGGAGGCGAAAGGAACAGAGTGACCTGACCACCCTAACATCAGCTGCATACCAGCAGAG
CCTGACTGTTCACACAGGAACTCATCTCCTCAGCATGCAGGGGAGCCCTGGAGGACACAATCGCCCAGGCACCCT
CATGGCAGCTGACAGAGCCAAACAAATGTTTGGACCCCAAGTGCTTACGACCCGGCACTACGTGGGCTCAGCAGC
TGCTTTTGCAGGGACACCAGAGCATGGACAATTCCAAGGCAGTCCTGGTGGTGCCTATGGGACTGCTCAGCCCCC
ACCTCACTATGGGCCCACACAGCCAGCTTATAGTCCTAGTCAGCAGCTCAGAGCTCCTTCGGCATTCCCTGCAGT
GCAGTACCTATCTCAGCCACAGCCACAGCCCTATGCTGTGCATGGCCACTTTCAGCCCACTCAGACAGGTTTCCT
CCAGCCTGGTGGTGCCCTGTCCTTGCAAAAGCAGATGGAACATGCTAACCAGCAGACTGGCTTCTCCGACTCATC
CTCTCTGCGCCCCATGCACCCCCAGGCTCTGCATCCAGCCCCTGGACTCCTTGCTTCCCCCCAGCTCCCTGTGCA
GATGCAGCCAGCAGGAAAGTCGGGCTTTGCAGCTACCAGCCAACCTGGCCCTCGGCTCCCCTTCATCCAACACAG
CCAGAACCCGCGATTCTACCACAAGTGACCATCAGATTATATCTTCAACACCACACCCCCCACCCCATCGTGGGT
GAGGGTATCCCCTGTGTGTCCCAGGCCAATAAAATCTACCTGCCA

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# FIGURE 4697

GGCACGAGGGCGGCGGCGGCGGTAGAGGCGGCGGCGGCGGCGGCAGCGGGCTCGGAGGCAGCGGTTGGGCTCGCG
GCGAGCGGACGGGGTCGAGTCAGTGCGTTCGCGCGAGTTGGAATCGAAGCCTCTTAAA**ATG**GCAGATGACTTGGA
CTTCGAGACAGGAGATGCAGGGGCCTCAGCCACCTTCCCAATGCAGTGCTCAGCATTACGTAAGAATGGCTTTGT
GGTGCTCAAAGGCCGGCCATGTAAGATCGTCGAGATGTCTACTTCGAAGACTGGCAAGCACGGCCACGCCAAGGT
CCATCTGGTTGGTATTGACATCTTTACTGGGAAGAAATATGAAGATATCTGCCCGTCAACTCATAATATGGATGT
CCCCAACATCAAAAGGAATGACTTCCAGCTGATTGGCATCCAGGATGGGTACCTATCACTGCTCCAGGACAGCGG
GGAGGTACGAGAGGACCTTCGTCTCCCTGAGGGAGACCTTGGCAAGGAGATTGAGCAGAAGTACGACTGTGGAGA
AGAGATCCTGATCACGGTGCTGTCTGCCATGACAGAGGAGGCAGCTGTTGCAATCAAGGCCATGGCAAAA**TAA**CT
GGCTCCCAGGATGGCGGTGGTGGCAGCAGTGATCCTCTGAACCTGCAGAGGCCCCCTCCCCGAGCCTGGCCTGGC
TCTGGCCCGGTCCTAAGCTGGACTCCTCCTACACAATTTATTTGACGTTTTATTTTGGTTTTCCCCACCCCCTCA
ATCTGTCGGGGAGCCCCTGCCCTTCACCTAGCTCCCTTGGCCAGGAGCGAGCGAAGCTGTGGCCTTGGTGAAGCT
GCCCTCCTCTTCTCCCCTCACACTACAGCCCTGGTGGGGGAGAAGGGGGTGGGTGCTGCTTGTGGTTTAGTCTTT
TTTTTTTTTTTTTTTTTTTTTTTAAATTCAATCTGGAATCAGAAAGCGGTGGATTCTGGCAAATGGTCCTTGTGC
CCTCCCCACTCATCCCTGGTCTGGTCCCCTGTTGCCCATAGCCCTTTACCCTGAGCACCACCCCAACAGACTGGG
GACCAGCCCCCTCGCCTGCCTGTGTCTCTCCCCAAACCCCTTTAGATGGGGAGGGAAGAGGAGGAGAGGGGAGGG
GACCTGCCCCCTCCTCAGGCATCTGGGAGGGCCCTGCCCCCATGGGCTTTACCCTTCCCTGCGGGCTCTCTCCCC
GACACATTTGTTAAAATCAAACCTGAATAAAACTACAAGTTTAATATGAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAA

5089/6881
# FIGURE 4698

MADDLDFETGDAGASATFPMQCSALRKNGFVVLKGRPCKIVEMSTSKTGKHGHAKVHLVGIDIFTGKKYEDICPS
THNMDVPNIKRNDFQLIGIQDGYLSLLQDSGEVREDLRLPEGDLGKEIEQKYDCGEEILITVLSAMTEEAAVAIK
AMAK

5090/6881
# FIGURE 4699

GGCCGGGAGAGTAGCAGTGCCTTGGACCCCAGCTCTCCTCCCCCTTTCTCTCTAAGG<u>ATG</u>GCCCAGAAGGAGAAC
TCCTACCCCTGGCCCTACGGCCGACAGACGGCTCCATCTGGCCTGAGCACCCTGCCCCAGCGAGTCCTCCGGAAA
GAGCCTGTCACCCCATCTGCACTTGTCCTCATGAGCCGCTCCAATGTCCAGCCCACAGCTGCCCCTGGCCAGAAG
GTGATGGAGAATAGCAGTGGGACACCCGACATCTTAACGCGGCACTTCACAATTGATGACTTTGAGATTGGGCGT
CCTCTGGGCAAAGGCAAGTTTGGAAACGTGTACTTGGCTCGGGAGAAGAAAAGCCATTTCATCGTGGCGCTCAAG
GTCCTCTTCAAGTCCCAGATAGAGAAGGAGGGCGTGGAGCATCAGCTGCGCAGAGAGATCGAAATCCAGGCCCAC
CTGCACCATCCCAACATCCTGCGTCTCTACAACTATTTTTATGACCGGAGGAGGATCTACTTGATTCTAGAGTAT
GCCCCCCGCGGGGAGCTCTACAAGGAGCTGCAGAAGAGCTGCACATTTGACGAGCAGCGAACAGCCACGATCATG
GAGGAGTTGGCAGATGCTCTAATGTACTGCCATGGGAAGAAGGTGATTCACAGAGACATAAAGCCAGAAAATCTG
CTCTTAGGGCTCAAGGGAGAGCTGAAGATTGCTGACTTCGGCTGGTCTGTGCATGCGCCCTCCCTGAGGAGGAAG
ACAATGTGTGGCACCCTGGACTACCTGCCCCCAGAGATGATTGAGGGGCGCATGCACAATGAGAAGGTGGATCTG
TGGTGCATTGGAGTGCTTTGCTATGAGCTGCTGGTGGGGAACCCACCCTTTGAGAGTGCATCACACAACGAGACC
TATCGCCGCATCGTCAAGGTGGACCTAAAGTTCCCCGCTTCTGTGCCCACGGGAGCCCAGGACCTCATCTCCAAA
CTGCTCAGGCATAACCCCTCGGAACGGCTGCCCCTGGCCCAGGTCTCAGCCCACCCTTGGGTCCGGGCCAACTCT
CGGAGGGTGCTGCCTCCCTCTGCCCTTCAATCTGTCGCC<u>TGA</u>TGGTCCCTGTCATTCACTCGGGTGCGTGTGTTT
GTATGTCTGTGTATGTATAGGGGAAAGAAGGGATCCCTAACTGTTCCCTTATCTGTTTTCTACCTCCTCCTTTGT
TTAATAAAGGCTGAAGCTTTTTGT

## FIGURE 4700

MAQKENSYPWPYGRQTAPSGLSTLPQRVLRKEPVTPSALVLMSRSNVQPTAAPGQKVMENSSGTPDILTRHFTID
DFEIGRPLGKGKFGNVYLAREKKSHFIVALKVLFKSQIEKEGVEHQLRREIEIQAHLHHPNILRLYNYFYDRRRI
YLILEYAPRGELYKELQKSCTFDEQRTATIMEELADALMYCHGKKVIHRDIKPENLLLGLKGELKIADFGWSVHA
PSLRRKTMCGTLDYLPPEMIEGRMHNEKVDLWCIGVLCYELLVGNPPFESASHNETYRRIVKVDLKFPASVPTGA
QDLISKLLRHNPSERLPLAQVSAHPWVRANSRRVLPPSALQSVA

# FIGURE 4701

AG**ATG**GAAGTACAGGCTCCACCAGGCACCACCATTGGCCACGTGCTACAGACCTGGCATCCCTTCCTCCCCAAGT
TCTCCATCCAGGATGCCGATCGCCAGACAGTCTTGCGAGTGGTGGGGCCCTGCTGGACCTGTGGCTGTGGCACAG
ACACCAACTTTGAGGTGAAGACTCGGGATGAATCCCGCAGTGTGGGCCGCATCAGCAAGCAGTGGGGGGGGCCTGG
TCCGAGAAGCCCTCACAGATGCAGATGACTTTGGCCTACAGTTCCCGCTGGACCTGGATGTGAGGGTGAAGGCTG
TGCTGCTGGGAGCCACATTCCTCATTGACTACATGTTCTTTGAGAAGCGAGGAGGCGCTGGGCCCTCTGCCGTCA
CCAGT**TAG**AGGCCACCATGGTGTGAGGAGACCATCACCTCGACCAGAACTCCAGATGGTCACCTGCCCTGGCCCC
TCCTCTGGGCAGCCCCTTTCCTCCATGTACACTGCAGGGGACAGAAGGGGGGCCCCATCCCTACCCTACTCCCTG
GCCGCCTGCCCCTGTGGTTCCCAAGGAGGGGTATGTATGAGAGCCGCTCTCCTGCTACCTCCCACCACTGTCCCA
GCAGTCCCTCGGCACACAGGCATATCAGCTTTCACACTTTCCCCATGCACTCTCTCCCACCCCCTTCCAGGGCCT
CTGCTCCAAAGGAGGCCTCTGGAACCCAGGACTCTGGGGTTTTACAAGAGGGCTGGGGTGTGGAAGGGCAAGCTG
CACCAAAGACGGTGGATATAGCCACCGCCCCCCCGCCGCTGCCTAGCATCTGCTTGGCCAATTAGTTCAGCCTCA
GACCATGGCACTTTGAGGGGGTCTCTACCTCCCCATCAACAGCTGCAGGGGGACCCCAGTGCCAACTTCCTCTCC
.CACTAGGGCCCTGCCTTCAGCTGGTGCTTGCTGCGATTCCTGTGCCTTATGTAACTGCCCTTCCTTCCCTTGCCC
TAGGAAAAAGGCTGCATCTTTATATGTTACATTCATATAAACTTTGTAACTTTTTGG

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## FIGURE 4702

MEVQAPPGTTIGHVLQTWHPFLPKFSIQDADRQTVLRVVGPCWTCGCGTDTNFEVKTRDESRSVGRISKQWGGLV
REALTDADDFGLQFPLDLDVRVKAVLLGATFLIDYMFFEKRGGAGPSAVTS

5094/6881
# FIGURE 4703

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GCTCCGCTGAATCCGCCCGCGCGTCGCCGCCGTCGTCGCCGCCCCCCGTCCCGGCCCCCCTGGGTTCCCTCAGCC
CAGCCCTGTCCAGCCCGGTTCCCGGGAGGATGAAGTTCGTGTACAAAGAAGAGCATCCGTTCGAGAAGCGCCGCT
CTGAGGGCGAGAAGATCCGAAAGAAATACCCGGACCGGGTGCCGGTGATAGTAGAAAAGGCTCCCAAAGCTCGGA
TAGGAGACCTGGACAAAAAGAAATACCTGGTGCCTTCTGATCTCACAGTTGGTCAGTTCTACTTCTTGATCCGGA
AGCGAATTCATCTCCGAGCTGAGGATGCCTTGTTTTTCTTTGTCAACAATGTCATTCCACCCACCAGTGCCACAA
TGGGTCAGCTGTACCAGGAACACCATGAAGAAGACTTCTTTCTCTACATTGCCTACAGTGACGAAAGTGTCTACG
GTCTGTGAAGCTGCTGCCCCTGAGCTGGAGGGGGGTCTCATTCTACAAAGAGAGAGGTGGCCCCCCTTTCTTGAC
CTCCTCCTCCTTCAAGCTCAAACACCACCTCCCTTATTCAGGACCGGCACTTCTTAATGTTTGTGGCTTTCTCTC
CAGCCTCTCTTAGGAGGGGTAATGGTGGAGTTGGCATCTTGTAACTCTCCTTTCTCCTTTCTTCCCCTTTCTCTG
CCCGCCTTTCCCATCCTGCTGTAGACTTCTTGATTGTCAGTCTGTGTCACATCCAGTGATTGTTTTGGTTTCTGT
TCCCTTTCTGACTGCCCAAGGGGCTCAGAACCCCAGCAATCCCTTCCTTTCACTACCTTCTTTTTTGGGGGTAGT
TGGAAGGGACTGAAATTGTGGGGGGAAGGTAGGAGGCACATCAATAAAGAGGAAACCACCAAGCTG
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5095/6881
# FIGURE 4704

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GAGACCATGGCGGGTAGCAGCACTGGGGGCGGTGGGGTTGGGGAGACGAAGGTGATTTACCACCTGGATGAGGAA
GAGACTCCCTACCTGGTGAAGATCCCTGTCCCCGCCGAGCGCATCACCCTCGGCGATTTCAAGAGCGTCCTGCAG
CGGCCCGCGGGCGCCAAGTACTTTTTCAAGTCTATGGATCAGGATTTCGGGGTGGTGAAGGAAGAAATTTCAGAT
GACAACGCCCGCCTCCCCTGCTTCAACGGAAGGGTGGTATCCTGGCTGGTGTCCTCAGATAATCCCCAACCCGAG
ATGGCCCCTCCAGTCCATGAGCCTCGGGCAGAACTGGCGCCTCCAGCCCCACCTTTACCTCCTTTGCCACCCGAG
AGGACCAGCGGCATTGGGGACTCAAGGCCTCCATCCTTCCACCCTAATGTGTCCAGCAGCCATGAGAATCTGGAG
CCTGAGACAGAAACCGAGTCAGTAGTGTCACTGAGGCGGGAGCGGCCTCGCAGGAGAGACAGCAGTGAGCATGGC
GCTGGGGGCCACAGGACTGGTGGCCCCTCAAGGCTGGAGCGCCACCTGGCCGGATACGAGAGCTCCTCTACCCTC
ATGACCAGCGAGCTGGAGAGTACCAGCCTGGGGGACTCGGACGAGGAGGACACCATGAGCAGGTTCAGCAGCTCC
ACGGAGCAGAGCAGTGCCTCCCGCCTCCTTAAGCGCCACCGGCGGCGAAGGAAGCAGAGGCCACCCCGCCTGGAG
AGGACGTCATCCTTCAGCAGCGTCACAGATTCCACAATGTCTCTCAATATCATCACAGTCACGCTAAACATGGAG
AAGTACAACTTCCTGGGTATCTCCATTGTTGGCCAGAGCAATGAGCGGGGAGACGGAGGCATCTACATTGGCTCC
ATCATGAAGGGTGGGGCTGTGGCGGCCGACGGGCGCATTGAGCCAGGGGACATGCTTTTGCAGGTGAATGACATG
AACTTTGAGAACATGAGCAACGATGACGCTGTGCGGGTGCTGAGGGACATTGTGCACAAGCCTGGCCCCATTGTG
CTGACTGTGGCCAAGTGCTGGGATCCCTCTCCTCAGGCCTATTTCACTCTCCCCCGAAATGAGCCCATCCAGCCA
ATTGACCCTGCTGCCTGGGTGTCCCATTCCGCGGCTCTGACTGGCACCTTCCCAGCCTATCCAGGTTCCTCCTCC
ATGAGCACCATTACATCTGGATCGTCTTTGCCTGATGGCTGTGAAGGCCGGGGTCTCTCCGTCCATACGGACATG
GCATCGGTGACCAAGGCCATGGCAGCTCCAGAGTCTGGACTGGAAGTCCGGGACCGCATGTGGCTCAAGATCACC
ATCCCTAATGCCTTTCTGGGCTCGGATGTGGTTGACTGGCTCTACCATCACGTGGAGGGCTTTCCTGAGCGGCGG
GAGGCCCGCAAGTATGCCAGCGGGCTGCTCAAAGCAGGCCTGATCCGACACACCGTCAACAAGATCACCTTCTCT
GAGCAGTGCTATTACGTCTTCGGAGACCTCAGTGGTGGCTGTGAGAGCTACCTAGTCAACCTGTCTCTCAATGAC
AACGATGGCTCCAGTGGGGCTTCAGACCAGGATACCCTGGCTCCTCTGCCTGGGGCCACCCCCTGGCCCCTGCTG
CCCACTTTCTCCTACCAATACCCTGCCCCACACCCCTACAGCCCGCAGCCTCCACCCTACCATGAGCTTTCATCT
TACACCTATGGTGGGGGCAGTGCCAGCAGCCAGCATAGTGAGGGCAGCCGGAGCAGTGGGTCGACACGGAGTGAT
GGGGGGGGCAGGGCGCACGGGGAGGCCCGAGGAGCGGGCCCCCGAGTCCAAGTCCGGCAGTGGCAGTGAGTCTGAG
CCCTCCAGCCGAGGGGGCAGCCTTCGGCGGGGTGGGGAAGCAAGTGGGACTAGCGATGGGGGCCCTCCTCCATCC
AGAGGCTCAACTGGGGGTGCCCCTAATCTCCGAGCCCACCCAGGGCTCCATCCCTATGGACCGCCCCCTGGCATG
GCCCTCCCCTACAACCCCATGATGGTGGTCATGATGCCCCCACCTCCACCTCCAGTCCCTCCAGCAGTGCAGCCT
CCGGGGGGCCCCTCCAGTCAGAGACCTGGGCTCTGTGCCCCCAGAACTGACAGCCAGCCGCCAAAGCTTCCACATG
GCCATGGGCAATCCCAGCGAGTTCTTTGTGGATGTTATGTAGCCCACTGTGGGGCCAGGCTGGGCCGGGCGCTCC
TGGTGTGTGACTGGGTGTCCTGGCCGTCATGTGCTTGCTCTTACAGTGCCTGGGCTCAGCCTACCAGCTGCTGCC
ATACAGGAGATTGTGGCCACTGTGACTCTCACCAGCAGTGCCTGGTTCCTCCCCCTTCCCTCAGGGGTAGACAAG
GGACCTTTGATTATTTTTAGCTTTGTTTTTTTATAAGCCTTTTGGGGGTTAAAATAGAGTTTCTTACATTTTTG
GGACTTTTTTAATAGGCATTTCCTCTTTT
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## FIGURE 4705

MAGSSTGGGGVGETKVIYHLDEEETPYLVKIPVPAERITLGDFKSVLQRPAGAKYFFKSMDQDFGVVKEEISDDN
ARLPCFNGRVVSWLVSSDNPQPEMAPPVHEPRAELAPPAPPLPPLPPERTSGIGDSRPPSFHPNVSSSHENLEPE
TETESVVSLRRERPRRRDSSEHGAGGHRTGGPSRLERHLAGYESSSTLMTSELESTSLGDSDEEDTMSRFSSSTE
QSSASRLLKRHRRRRKQRPPRLERTSSFSSVTDSTMSLNIITVTLNMEKYNFLGISIVGQSNERGDGGIYIGSIM
KGGAVAADGRIEPGDMLLQVNDMNFENMSNDDAVRVLRDIVHKPGPIVLTVAKCWDPSPQAYFTLPRNEPIQPID
PAAWVSHSAALTGTFPAYPGSSSMSTITSGSSLPDGCEGRGLSVHTDMASVTKAMAAPESGLEVRDRMWLKITIP
NAFLGSDVVDWLYHHVEGFPERREARKYASGLLKAGLIRHTVNKITFSEQCYYVFGDLSGGCESYLVNLSLNDND
GSSGASDQDTLAPLPGATPWPLLPTFSYQYPAPHPYSPQPPPYHELSSYTYGGGSASSQHSEGSRSSGSTRSDGG
AGRTGRPEERAPESKSGSGSESEPSSRGGSLRRGGEASGTSDGGPPPSRGSTGGAPNLRAHPGLHPYGPPPGMAL
PYNPMMVVMMPPPPPPVPPAVQPPGAPPVRDLGSVPPELTASRQSFHMAMGNPSEFFVDVM

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# FIGURE 4706

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GGGCCAGCGCGGCCCGGGCCGCCCTCGCCTCCCACCCAGGGCGCTGAGCACGCACGCCGCCGGCCTGGCGGCGTT
CGCGGGGCCCGGGACCAGCCGCCGCCTTCTCCAGGCGCTCCTACTCTCTGGGCATCTGCAGTCCGAGCGGAAGGG
GCGGGAACGTCGGCGACGCCGAGGAGCAAAGCCCACGATCGGCTTCCCGGGGCAGCGGACGGCTGCCTTCCTCCC
GGCGCAAACGCACCGCCCAGGAGGGGGCGGGCTCGGCGGGTCGGGGGGCGGGGCCGGGGTCCGAGCTCGGGCCCG
·CCTCCGCCTCCGCCAGCTCCTGTGAGCTGCCGAGTGCTAGGCACCCGGGCTCTTCTGGGGGCTCCAGAACTAAGC
CACCCAGACACCATCATCTCGAAAACCCCAGCCCTTCTCCCATGGCAGGCTACTTGCCCCCCAAAGGCTACGCCC
CTTCGCCCCCACCTCCCTACCCTGTCACCCCTGGGTACCCGGAGCCGGCGCTACATCCTGGGCCCGGGCAGGCGC
CAGTGCCCGCCCAGGTACCTGCCCCAGCTCCCGGCTTCGCCCTCTTCCCCTCGCCTGGCCCCGTGGCCTTGGGGT
CTGCTGCCCCCTTCTTGCCACTGCCAGGGGTGCCTTCTGGCCTCGAATTCCTGGTGCAGATTGATCAGATTTTGA
TTCACCAGAAGGCTGAGCGAGTGGAAACGTTCCTAGGCTGGGAGACCTGTAATCGGTATGAACTGCGCTCTGGGG
CCGGGCAGCCCCTGGGTCAGGCGGCCGAGGAGAGCAACTGCTGCGCCCGTCTGTGCTGTGGCGCCCGCCGGCCGC
TGCGTGTCCGCCTGGCCGACCCCGGGGACCGTGAGGTGCTGCGTTTGCTCCGCCCGCTGCACTGTGGCTGCAGCT
GCTGCCCCTGTGGCCTCCAGGAGATGGAAGTACAGGCTCCACCAGGCACCACCATTGGCCACGTGCTACAGACCT
GGCATCCCTTCCTCCCCAAGTTCTCCATCCAGGATGCCGATCGCCAGACAGTCTTGCGAGTGGTGGGGCCCTGCT
GGACCTGTGGCTGTGGCACAGACACCAAC
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# FIGURE 4707

```
AGTTGGAATCGAAGCCTCTTAAAATGGCAGATGACTTGGACTTCGAGACAGGAGATGCAGGGGCCTCAGCCACCT
TCCCAATGCAGTGCTCAGCATTACGTAAGAATGGCTTTGTGGTGCTCAAAGGCCGGCCATGTAAGATCGTCGAGA
TGTCTACTTCGAAGACTGGCAAGCACGGCCACGCCAAGGTCCATCTGGTTGGTATTGACATCTTTACTGGGAAGA
AATATGAAGATATCTGCCCGTCAACTCATAATATGGATGTCCCCAACATCAAAAGGAATGACTTCCAGCTGATTG
GCATCCAGGATGGGTACCTATCACTGCTCCAGGACAGCGGGGAGGTACGAGAGGACCTTCGTCTCCCTGAGGGAG
ACCTTGGCAAGGAGATTGAGCAGAAGTACGACTGTGGAGAAGAGATCCTGATCACGGTGCTGTCTGCCATGACAG
AGGAGGCAGCTGTTGCAATCAAGGCCATGGCAAAATAACTGGCTCCCAGGGTGGCGGTGGTGGCAGCAGTGATCC
TCTGAACCTGCAG
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# FIGURE 4708

GGCCCCCCCCCCCCCTAGAAATGCTCGAACCAGGACGGCTCCTGGAGTCCTCGCGCCCTCGCAGAAGGACTACGG
GCCCCGGCGACCCCGGGGGCGGGGCTTCCGGCGCGCTGCCTTGTGGGCACGGTAGTTCCGCCGGGTCTGGCTTCC
GCCTGCCGAGCGGCCCCGGACCGCAGGCCGGACTACACTTCCCGTCGGCCCGCCTGCTCTCCCGATGCCGCCTTG
GCGCGAGACGTTGGCAAGCAGAGTGTCTCCAAG**ATG**GCCGCTTGGGGAAGGAGGCGTCTTGGCCCGGGCAGCAGT
GGCGGCAGCGCCCGAGAGAGGGTGAGCTTGTCGGCCACAGACTGCTACATTGTGCATGAGATCTACAATGGGGAG
AATGCCCAAGACCAGTTTGAGTACGAGCTGGAGCAGGCCCTGGAAGCCCAGTACAAGTACATTGTGATTGAGCCC
ACTCGCATTGGCGACGAGACAGCCCGCTGGATCACCGTGGGCAACTGCCTGCACAAGACGGCCGTGCTGGCGGGC
ACCGCCTGCCTCTTCACCCCGTTGGCGCTGCCCTTAGATTATTCCCACTACATTTCCCTGCCCGCTGGTGTGCTG
AGCCTGGCCTGCTGCACCCTCTATGGGATCTCCTGGCAGTTTGACCCTTGCTGCAAGTACCAAGTGGAGTACGAC
GCCTATAAACTGTCGCGCCTGCCTCTGCACACACTCACCTCCTCCACCCCGGTGGTGCTGGTCCGGAAGGACGAC
CTGCACAGAAAGAGACTGCACAACACGATAGCACTGGCCGCCCTGGTGTACTGTGTAAAGAAGATTTACGAACTC
TATGCCGTA**TGA**TTTCAGTAGAACAGGGAGCGAAGCAAAACCACCCGGCCCACAAGAGACAACAGAGTATTCAGA
TCGCCACACTCTGTGAGGCAGCAGAGCCTGGGCAGGTGTTTGGCTTAGTATTTGTTATTTTTAAAAAATAACAGA
TCACGGGTGTACCCAGGGTTTTTCAGCTCATTACACTAAGATGTGGATTTCCATAACCCAAGAGGGGGGTCTGAG
GCTGTGGAAGTCCGACTGGGCAGTGGAATGCTGATGGAGGCAGACGCTGCCGAGGGGGTGTGGACGTGCTTTGGG
GGAGGTCTTTAAGTCTATTGTTTAACTGTACCATCCAGAGCCCACCAGAAGCTATTGATCATTAAAATTATGAGA
ATTTCAACTCC

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**FIGURE 4709**

MAAWGRRRLGPGSSGGSARERVSLSATDCYIVHEIYNGENAQDQFEYELEQALEAQYKYIVIEPTRIGDETARWI
TVGNCLHKTAVLAGTACLFTPLALPLDYSHYISLPAGVLSLACCTLYGISWQFDPCCKYQVEYDAYKLSRLPLHT
LTSSTPVVLVRKDDLHRKRLHNTIALAALVYCVKKIYELYAV

5101/6881
# FIGURE 4710A

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AGGCCAAGTCCTGTATCTGCCATGTCTGTGGCGTCCACCTCAACAGGCTGCATTCCTGCCTCTACTGTGTCTTCT
TCGGCTGTTTCACAAAGAAGCATATTCACGAGCATGCGAAGGCGAAGCGGCACAACCTGGCCATTGATCTGATGT
ACGGAGGCATCTACTGTTTTCTGTGCCAGGACTACATCTATGACAAAGACATGGAAATAATCGCCAAGGAGGAGC
AGCGAAAAGCTTGGAAAATGCAAGGCGTTGGAGAGAAGTTTTCAACTTGGGAACCAACCAAACGGGAGCTTGAAC
TGCTGAAGCACAACCCGAAAAGGAGAAAGATCACCTCGAACTGCACCATAGGTCTGCGTGGGCTGATCAACCTTG
GGAACACATGCTTCATGAACTGCATCGTGCAGGCCCTGACCCACACGCCACTTCTGCGGGACTTCTTCCTGTCTG
ACAGGCACCGCTGTGAGATGCAGAGCCCCAGCTCCTGTCTGGTCTGTGAGATGTCCTCACTGTTTCAGGAGTTTT
ACTCTGGACACCGGTCCCCTCACATCCCGTATAAGTTGCTGCACCTGGTGTGGACCCACGCGAGGCACCTAGCAG
GCTACGAGCAGCAGGACGCCCACGAGTTCCTCATCGCGGCCCTGGACGTGCTCCACCGACACTGCAAAGGTGATG
ACAATGGGAAGAAGGCCAACAACCCCAACCACTGCAACTGCATCATAGACCAGATCTTCACAGGCGGGTTGCAGT
CAGACGTCACCTGCCAAGTCTGCCATGGAGTCTCCACCACCATCGACCCCTTCTGGGACATCAGCTTGGATCTCC
CCGGCTCTTCCACCCCATTCTGGCCCCTGAGCCCAGGGAGCGAGGGCAACGTGGTAAACGGGGAAAGCCACGTGT
CGGGAACCACCACGCTCACGGACTGCCTGCGACGATTCACCAGACCAGAGCACTTGGGCAGCAGCGCCAAGATCA
AGTGCAGCGGTTGCCATAGCTACCAGGAGTCCACAAAGCAGCTCACTATGAAGAAACTGCCCATCGTAGCCTGTT
TTCATCTCAAACGATTTGAACACTCAGCCAAGCTGCGGCGGAAGATCACCACGTATGTGTCCTTCCCCCTGGAGC
TGGACATGACCCCTTTCATGGCCTCCAGCAAAGAGAGCAGGATGAATGGACAGTACCAGCAGCCCACGGACAGTC
TCAACAATGACAACAAGTATTCCCTGTTTGCTGTTGTTAACCATCAAGGGACCTTGGAGAGTGGCCACTACACCA
GCTTTATCCGGCAGCACAAAGACCAGTGGTTCAAGTGTGACGATGCCATCATCACCAAGGCCAGCATCAAGGACG
TCCTGGACAGCGAAGGGTACTTGCTGTTCTATCACAAACAGTTCCTGGAATACGAGTAGCCTTATCTGCAGCTGG
TCAGAAAAACAAAGGCAATGCATTGGCAAGCCTCACAAAGTGATCCTCCCTGGCCCCCCCCTCCCCCAAGTCTCC
CGCCGCCTCCCCGGCCTGGTGACACCACCTCCCATGCAGATGTGGCCCCTCTGCACCTGGGACCCATCGGGTCGG
GATGGACCACACGGACGGGGAGGCTCCTGGAGCTGCTTTGAAGATGGATGAGATGAGGGGTGTGCTCTGGGTGGG
AGGAGCAGCGTACACCCGTCACCAGAACATCTCTTGTGTCATGACATGGGGGTGCAACGGGGGCCTCACAGCACA
GAGTGACCGCTGCCTGGCGTTCCCCAGCACTCGGTGTGGAAAGGCCCCTACCTGCTGTAAGATTATGGGTCCATG
AAAGCAGTAAGCTGGACACAGAGGTGTAGTGTGCGGGACAGAGGGCCTTGCAGATGCCTTTCTGTTGGTGTTTTA
GTGTTAAAATACGGAGAGTATGGAACTCTTCACCTCCATTTCTCAGCGGCTGTGAAGCAGCCTCCTAGCTTCGG
AAGTACGGACACTACGTCGCGTTTTCAAGCGTGTCTGTTCTGCAGGTAACAGCATCAAGCTGCACGTGGAAGCAT
CTCGCGGTTTTCTAGAAACAGGCATTTTCTTATCCCTCTCCCGCTCCTTTTTCCACAAAGGTGAATTTCATAAAT
GTAATACTAGTAAAGTGAATGAATTACTGAGTTTATACAGAAATTTAGGTAACTTCTCCTTTAGTCTCAAGAGCG
AGTCTTGCTTTTTAATGGGTGCCGTTTATGTTGCTGCCCGCCCTGTGTGCCTGGCTCCTCTGGGTGCCTTGGTGT
CTGCTGGTGGCTGGCAGTGGGCGCAGCGGAGGAGAGTTGTGCTGCAGCTCATACGGTGTGTCTGTCATCTCAGTC
TGGAGTAAATGCAGTGTCTGCCGGTGTCTGATGGGTTCTGTCCCTCGTATTTTCTTTGCCTTCTATCCCATTGCC
TGGCTACCGCTGCCTGGCAGCCAAGGGTGTTGGTCGCGAAGCTGGAGTGGCCTCTGGTGGAGCCTGCATCTTGTC
TCGTCTGCCTCTGCTTTACATTGGTGTACTTTCGGGCGTGGTGGCAGTAAAATGACACCGTGATTGAGCTTGTC
AGCAGAGCTGAAAGAGAAAGTAGAAGGATGTGCATTGTTTCTTGTAAGATATCTTGCATGTATCTGTGTATTCAA
ATTCAAACAGAGATGGTTTGTCCATTTGTCCACTGAGAAATTAGAAACTAGGGACAAGGGGGAGGAAAAGTACTG
AAATACAGTTTATGAAGCAAGTGTGTCTCGGGCTGTGCTTGTCCCAGGAGCCCCAGCAGCATCTGAACTGAGGCT
TCTTCAGTCCTGCAGGAACAGGATCATCTGTCTCAGCGGTGGGCAGATGTTTTCATAGACAGCCAGGGAGTAAAC
ACTGTTGGCTCTGTGGGCTGTATGGTCTCTGCCATAAATAGTACAGAGATGTGGCTGTGTCTAGTACAACTTTTA
GACACAGAAATCTGAATGACATATATTGTTCTGTGTCAAGAAACTTAGATTTTTTTTTTAACTATTTAAAAACGT
GAAACCTATTCTTAGCTCACAGGCCATGGAGAAGCTGGTGGGGACCAGACCCAGCTCCTTAGCTGGCTGGGCTGG
GGAGGGGGTAGTGACAGTGGCAGCTGCTACTCACTGCTCAGTGTGGAAAACACAGGACTTGGCAATACAGCCCG
CAGAACCATCATGTGTGGCAGAAGCCTGAGGGATGCGGTTTCTTGCCCACGTGCTCTGTTCATTTTCTGTTGTTT
TTCTGCACTTAAAGAATTCACATGGAAGCATGTTTATAAAATGAATTACCAGAGAAACAGAGATGGGCCGAGAT
TTTCAGAAATGGTCCCATGTGACCAAGTTCTGCTGTTTGGGTGACAGTGCTTTGAAGATCTCCTTTGAGGATGTG
CAGTCTTTTTTTTTTTTTTTTGAGATGGAGTTTGTTGCCCAGGCTGGAGTGAGTGGCACAGTCTCGGCTCACTG
CAACCTCCACCTCCTGGGTTCAAGCAGTTCTCGTGCCGCAGCCTCCCAAGTAGCTGGGACTACAGGCATGCACCA
CCACGCCAGGCTAATTTTTGTATTTTTAGTAGAGATGGGGTTTCACCATGTCTCAAACTCCTGACCTCAGGCGAT
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## FIGURE 4710B

CCACCCACCTCAGCGTCCCAAAGTGCTGGGATTATAGGCGTGAGCCACCGCACCTGGCCTATGAGTGGTCTTTTA
ATTAGGAACAAATCTAATGGAAAGGAGAGTTGACTGAAGTTGGCCCACAGGATTGTGAGCTGGGCAGTGCCTTCA
TGAAGGCTTGCCACCTTGGGACGCCCCAGTTTACTGGGGTGTCTTGCGGAGTGCAGAAGGCTTTCTGGCAGCTGC
CTGGGTTTGGCCAGACCCTGCCTCCCCTCCCGCCGGCCAACCCCTAGTCCCCTTCCTGTCTCCACTTGCATTCAG
GGGTGGCTGCTGTTCTGAGAACATTAGAACTGGGAAGAGAGATGGAGTCACATGGATTTTTGGTGGGCATTATTC
TAAACTTTCGTATCCAAGTTAGTCCCCCTTATTCCACTGTGGCATTGCCGTTCTAAGCAGTTACCTGATGCCTGC
TGCTGAAGAGCTGCTCACAGGAGGCGGCGGCGGCCCTGGCACTGCCCCTTGCATTAGGTCTTGTGTTTGATGTGT
TCTTGTGAATTTACTTTGTCAGAACAAAATATTTACGCGTTGGGTTCAGGAATTTCTTTTAGCTCCCCATCTGGC
TGTGAAATTCAGGAAACCTCCCGTTGCCTAGTAATCACCCCATGTAGGTGTACATTGTGACAAAGTGCATCTGAC
CACTAAGGGGCCCCCTTGGTGACCCCAGCACATTCACAGCAGTGTTAAAATGGCCTGCATTTTGGAGATGCTGGC
TGGCCTTTCAGTGCCTCCCAGGAAGACACATGGCCTTTCCCTCTTCAGATGCCTGAAGGGAGTGCTTTGAGGCAG
GTGATGTGCTGGGAGTGTGGGCGGCCTCCCTCTGGCCCCGGGGCCCTCTGTGGACCTTGGCTCCCTCCGTGGACC
TGGGCTTCGTGGTGAGCACTGCAGCCTCCCTGGGCATTCCCTCCAGCGCCAGCACCACTGCAACATATAGACCTG
AGTGCTATTGTATTTTGGCTTGGTGTGTATGCTCTTCATTGTGTAAAATTGCTGTTCTTTTGACAATTTAAGTGA
TTGTTTTGTTTACTGTAAGTTTGAAAATAAAAATGAAGAAAAAAATTCCAATGACTGTGCTGTGGTTGGAGACTT
TATTTACCAAGATGTTTACTCTTCCTTTCCCCTTCCATTTTGAGGAGCTGTGTCACTCCTCCTCCCCCCCAGTGC
TTTGTAGTCTCTCCTATGTCATAATAAAGCTACATTTTCTCTG

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# FIGURE 4711

MVSRPEPEGEAMDAELAVAPPGCSHLGSFKVDNWKQNLRAIYQCFVWSGTAEARKRKAKSCICHVCGVHLNRLHS
CLYCVFFGCFTKKHIHEHAKAKRHNLAIDLMYGGIYCFLCQDYIYDKDMEIIAKEEQRKAWKMQGVGEKFSTWEP
TKRELELLKHNPKRRKITSNCTIGLRGLINLGNTCFMNCIVQALTHTPLLRDFFLSDRHRCEMQSPSSCLVCEMS
SLFQEFYSGHRSPHIPYKLLHLVWTHARHLAGYEQQDAHEFLIAALDVLHRHCKGDDNGKKANNPNHCNCIIDQI
FTGGLQSDVTCQVCHGVSTTIDPFWDISLDLPGSSTPFWPLSPGSEGNVVNGESHVSGTTTLTDCLRRFTRPEHL
GSSAKIKCSGCHSYQESTKQLTMKKLPIVACFHLKRFEHSAKLRRKITTYVSFPLELDMTPFMASSKESRMNGQY
QQPTDSLNNDNKYSLFAVVNHQGTLESGHYTSFIRQHKDQWFKCDDAIITKASIKDVLDSEGYLLFYHKQFLEYE

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# FIGURE 4712A

GTGGTGTCGGTGTCGGCAGCATCCCCGGCGCCCTGCTGCGGTCGCCGCGAGCCTCGGCCTCTGTCTCCTCCCCTT
CCAGCCCTCACCTCCACGCGGGACCGCTCGCGCCAGTCAACTCCGCGCACGTTGCCCCTGCTTGGCAGCCAATAA
AAGGGGGCTGAGGAAATACCGGACACGGTCACCCGTTGCCAGCTCTAGCCTTTAAATTCCCGGATCGGGCACCTC
CACGCACCGCGGCTAGCGCCGACACCCAGCTAGCGTGCAAGGCGCCGCGGCTCAGCGCGCACCGGCGGGCTTCGA
AATCGCAGTCCTCCGGCGACCCCGAACTCCGCCCCGGAGCCTCAGCCCCTGGAAAGTGATCCTGGCATCCGAGAG
CCAAGATGCCGGCCCACTTGCTGCAGGACGATATCTCTAGCTCCTATACCACCACCACCACCACCATTACAGCGC
CTCCTTCCAGGGTCCCGCAGAATGGAGGAGATAAGTTGGAGACGACGCCCCTCTACTTGGAAGAAGACATTCGCC
CTGATATAAAAGATGATATATATAACCTCACCTACAAGGATAAGGAAGGCCCAAGCCCCAAGGTTGAATATGTCT
GGAGAAACATCATCCTTATGTCTCTGCTACACTTGGGCGCCCTGTATGGGATCACTTTGATTCCTACCTGCAACT
TATACACCTGGCTTTGGGGGGTATTCTACTATTTTATCAGTGCCCTGGGCATAACAGCAGGAGCTCATCCTCTGT
GGAGCCACTGATCTTACAAAGCTCGGCTGTCCCTGTGGCTCTTTCTGATCATTGCCAACACAATGGCATTCCAGA
ATGATGTCTATGAATGGGCTCGCGACCACCGTGCCCACCACAAGTTTTCAGAAACACATGCTGATCCTCATAATT
CCTGACGTGGCTTTTTCTTCTCACGTGGGTTGGCTGCTTGTGCGCAAACACCCAACTGTCAAAGAGAAGGGCA
GTACGCTAGACTTGTCTGACCTAGAAGCCGAGAAACTGGTGATGTTCCAGAGGAGGTACTACAAACCCGGCTTGC
TGTTGATGTGCTTCATCCTGCCCACGCTTGTGCCCTGGTGTTTCTGGGGTGAAACTTTTCAAAACAGCGTGTTCG
TTGCCACTTTCTTGCGATATGCTGTGGTGCTTAATGCCACGTGGCTGGTGAACAGTGCTGCCCACCTCTTCAGAT
ATCGTCCTTATGACAAGAACATTAGCCTCCGGGAGAATATCCTGGTTTCACCTGGAGCTGTGGGTGAGGGCTTTC
ACAACTACCACCACTCCTTTCCCTATGACTACTCTGCCAGTGAGTACCGCTGGCACATCAACTTCACCACATTCT
TCATTGATTGCATGGCCGCCTTCGGTCTGGCCTACGACCAGAAGAAAGTCTCCAAGGCCGCCATCTTGGCCAGGA
TTAAAAGAACCGGAGAGGGAAACTACAAGAGTGGCTGAGTTTGGGGTCCCTCAGGTTCCTTCTTCAAAAGCCAGC
CAGGCAGAGGTTTTAATGTCTGTTTATTAACTACTGAATAATGCTACCAGGATGCTAAAGATGATGATGATAACC
CATTCCAGTACAGTATTCTTTTAAAATTCGAAAGTATTGAAAGCCAACAACTCTGCCTTTATGATGCTAAACTGA
CATTATTTCTTCTCTTATCCTCTCTCTCTTCTAGGCCCATTGTCCTCCTTTTCACTTTGTTGCTATCATCCTCCT
TTCTCTTATTGCCACCCAGGCAAGCAGCTGGTCAGTCTTTGTTCAGTGTCCAGCTTCCAAAGCCTAGACAACCTT
TCTGTAGCCTAAAACGAATGGTCTCTGCTCCAGATAACTCTCTTTCCTTGAGCTGTTGTGAGCTTTGAAGTAGGT
GGCTTGAGCTAGAGATAAAACAGAATCTTCTGGGTAGTCCCCTGTTAATTATCTTCAGCCCAGGCTTTTGCTAGA
TGGAATGGAAAAGCAACTTCATTTGACACAAAGCTTCTAAAGCAGGTAAATTGTTGGGGGAGAGAGTTAGCATGT
ATGAATGTAAGGATGAGGGAAGCGAAGCAAGAGGAACCTCTTGCCATGATCAGACATGCAGCTGCCTACCTAGTG
AGGACTTCAAGCCCCACCACATAGCATGCTTCCTTTCTCTCCTGGCTTGGGGTAAGAAGTGGCTGTGGTGTTTGG
CAATGCTAATTCAATGCCGCAACATATAGTTTAGGCCAAGGATAAAGAAGAGACACTTTAAGTTTGTAGTAAAAG
TGGTCTCTGCTGGGGAAGGGTTTTCTTTTCTTTTTTTCTTTAATAACAAGGAGATTTCTTAGTTCATGTATCAAG
AATTCTTGAAGTTGGGTGTTTCCATAATTGGTAAAAACAGCAGCTCACAGAATTTTGAGTATTCCATGAGCTGCT
CATCACAGTTCTTTCCTCTTTCTGCTCTGCCATCTTCAGGATATTGGTTGTTCCCCTCATAGTAATAAGATGGCT
GTGGCATTTCCAACCATCCAAAAAAAGGGAAGGATTTTAGGAGGTGGAGTCGGGTCAAACAAGAAATATATATAT
ACATATATACATTGCTTAGAACGTTAAACTATTAGAGTATTTCCCTCCCAAAGAGGGATGTTTGAAAAAACTCTG
AAGGAGAGGAGGAATTAGTTGGGATGCCAATTTCCTCTCCACTGCTGTACATGAGATGGGGAGGTTGAGGGACAG
GATCTATAGGCAGCTTCTAAGAGCAAACTTCACACAGGAAGGGATCTGAGAACACATTGCCGGGGGCTTGAGAAG
GTTACTGAGTGAGTTATTGGGAGTCTTAATAAAATAAACTAGATATTAGGTCCATTCATTAATTAGTTCCAGTTT
CTCCTTGAAATGAGTAAAAACTAGAAGGCTTCTCCCCACAGTGTTGTGCCCCTTCACTCATTTTTTATTGGCGGG
GTGGGGGGCTCTGTTAACATCTAGCCTAAGTATAGAACTGCCTGGGGGGGCAGGGTTAGGAATCTCTTCACTACCC
TGATTCTTGATTCCTGGTTCTACCCTGTCTGTCCCTTTTCTTTTACTAGATCTTTCTCTTCCCTGAACGTTTTCT
TCTTTCCCTGGACAGGCAGCCTCCTTTGGGTGTATTCAGAGGCAGTGATGACTTGCTGTCCAGGCAGCTCCCTCC
TGCAGACAGAATGCTCAGGGTCACTGAACCACTGCTTCTCTTCCGAAAGTAGAGCTAGCTGCCACTTTCGCATGG
CCTCCGGAGTGTCTCCACCTACACCTCTGTGCTCCCCCGCCACACTGATGGCTCAAGACAAGGCTGGCAAACCCT
CCCAGAAATGTCTCTGGCCCAGAAAGCCTCTCTCTCCCTCCCTCTCTCATGAGGCACAGCCAAGCCAAGTGCTCA
TGAGCCAGTGGGCCTGCCACAGAGCAAACGAGGGTTTATTTTCAGTCCCCTCTCTCTGGATCAGAACCAGAGAGC
ATGCTGAATGCCCCTCTGCTTGCTCGGTAAGGGTGCCCCACCTGAATCAGTGCTCTCAGCTGGCAGTGCAATGCT
TGTAGAAGTAGGAGGAAACAGTTCTCACTGGGAAGAAGCAAGGGCAAGAACCCAAGTGCCTCACCTCAAAAGGAG

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# FIGURE 4712B

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GCCCTGTTCCCTGGAGTCAGGGTGAACTGCAAACCTTTGGCTGAGACCTGGGATTTGAGATACCACAAACCCTGC
TGAACAGAGTGTCTGTTCAGCAAACTAACCAGCATTCCCTATAGCCTAGGGAATAGTATAGAAGTCTGGCAAAAA
CAGAAACAGAACATCAGTGTTTTGAGAACCTTGGACTACTCCTGTCCCTGTAGCTCAGTCATCAAAGCAGAAGCC
TGGCTTTGCTCTATTAAGATTGGAAATGTACACTACCAAACACTCAGTCCACTGTTGAGCCCCAGTGCTGGAAGG
AAGGAGGGCCTTTCTTCCTGTGTTAATTGCATGGAGGCTACAGGGGTTAGCCTGGACTAAAGGCATCCTTGTGTT
TTGAGCTATTCACCTCAGTAGAAAAGAATCTAAGGGAAGATCACTGTAGTTTAGCTCTGTTGACCTGTGCACCTA
CCCCTTGGAAATGTCTGCTGTTATTTCTAATTCCACAGGTCATAAGATGCCTTCTTGATGATATATGAACGATAA
AAACAACTTTCACTTCTTCCTATTGTAATCGTGTGCCATGGATCTGATCTGTACCATGACCCTACATAAGGCTGG
ATGGCACCCTCAGGCTGAGGGCCCCAATGTATGTGTGGCTGTGGGTGTGGGTGTGGGTGTATCTGCTGAGTAAGG
AACACTATTCTCAAGATTCTAAAGCTCAATTCAAGTGACACATTAATGATAAACTCAGATCTGATCAAGAGTCTG
GATTCTAACAGTCCTTGCTTCGGGGCTGTGCTGGCAACTTAACTCGGGTGCCTTACATCTTTTCTAATCATAGT
GTTGCATATGAGCCTGCCCTCACTCCCTCTGTGGAATCCCTTTGCACCTGAGAGCCTACTGAAGTGGCTGGTAGA
AAAAGGGGCCTGAGTGAAGGATTATCAGTATCGCGATTTGCAGGATTCCCTTCTGGGCTTCATTCTGGAAACTTT
TGTTAGGGCTGCTTTTAAGTGCCCACATTTGATGGAGGGTGGAAGTAATTTGAATGTATTTGATTTATATATATA
TATATTTTTAAGGTTAAAAGATGGTTGTAGCATTTAAAATGGAAAATTTTCTCCTCGGTTTGCTAGTATCTTGGG
TGTATTCTCTCTAAGTGTAGCTCAAATAGGTCATCATGAAAGGTTAAAAAAGTGAGGTGGCCATGTTACGCTGGT
GGTTAAGGCCAGGGCCTCTCCTACCACTGTGCCACTGACTTGCTATGTCACCCTGGGCAAGTCACTTAACTATAA
GGTGCCTCAGTTTTCCTTCTGTTAAAATGGGGATAATAATACTGACCTACCTCAAAGGGCAGTTTGAGGCGTGA
CTAATGCTTTTTAGAAAGCATTTTGGGATCCTTCAGCACAGGGATTCTCAAGACCTGAGTATTTTTATAATAGC
AATGTCCACCATCAACTTGATATGTCCGTGTGTCCCAGATGCTGTCATTAGTCTATATGGTTCTCCAAAAAATTG
AATGAATCCATTGGAGAAGCAGTGGATTAACTAGCCAGACAAAATTTGAGAATGCATAAAAAACACATTGCCACG
GAAACATACAGAGGATGCCTTTTCTGTGATTGGGTGGGATTTTTTCCCTTTTTATGTGGGACATAGTAGTTACTT
GTGACAAGAATAATTTTGGAATAATTTCTATTAACATCAACTCTGAAGCTAATTGTACTAATCTGAGATTGTGTT
TGTTTATAATAAAAGTGAAGTAATC
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# FIGURE 4713

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ACGGTCACCCGTTGCCAGCTCTAGCCTTTAAATTCCCGGATCGGGCACCTCCACGCACCGCGGCTAGCGCCGACA
CCCAGCTAGCGTGCAAGGCGCCGCGGCTCAGCGCGCACCGGCGGGCTTCGAAATCGCAGTCCTCCGGCGACCCCG
AACTCCGCCCCGGAGCCTCAGCCCCTGGAAAGTGATCCTGGCATCCGAGAGCCAAGATGCCGGCCCACTTGCTGC
AGGACGATATCTCTAGCTCCTATACCACCACCACCACCACCATTACAGCGCCTCCTTCCAGGGTCCCGCAGAATG
GAGGAGATAAGTTGGAGACGACGCCCCTCTACTTGGAAGAAGACATTCGCCCTGATATAAAAGATGATATATATA
ACCTCACCTACAAGGATAAGGAAGGCCCAAGCCCCAAGGTTGAATATGTCTGGAGAAACATCATCCTTATGTCTC
TGCTACACTTGGGCGCCCTGTATGGGATCACTTTGATTCCTACCTGCAACTTATACACCTGGCTTTGGGGGGTAT
TCTACTATTTTATCAGTGCCCTGGGCATAACAGCAGGAGCTCATCCTCTGTGGAGCCACTGATCTTACAAAGCTC
GGCTGTCCCTGTGGCTCTTTCTGATCATTGCCAACACAATGGCATTCCAGAATGATGTCTATGAATGGGCTCGCG
ACCACCGTGCCCACCACAAGTTTTCAGAAACACATGCTGATCCTCATAATTCCTGACGTGGCTTTTTCTTCTCTC
ACGTGGGTTGGCTGCTTGTGCGCAAACACCCAACTGTCAAAGAGAAGGGCAGTACGCTAGACTTGTCTGACCTAG
AAGCCGAGAAACTGGTGATGTTCCAGAGGAGGTACTACAAACCCGGCTTGCTGTTGATGTGCTTCATCCTGCCCA
CGCTTGTGCCCTGGTGTTTCTGGGGTGAAACTTTTCAAAACAGCGTGTTCGTTGCCACTTTCTTGCGATATGCTG
TGGTGCTTAATGCCACGTGGCTGGTGAACAGTGCTGCCCACCTCTTCAGATATCGTCCTTATGACAAGAACATTA
GCCTCCGGGAGAATATCCTGGTTTCACCTGGAGCTGTGGGTGAGGGCTTTCACAACTACCACCACTCCTTTCCCT
ATGACTACTCTGCCAGTGAGTACCGCTGGCACATCAACTTCACCACATTCTTCATTGATTGCATGGCCGCCTTCG
GTCTGGCCTACGACCAGAAGAAAGTCTCCAAGGCCGCCATCTTGGCCAGGATTAAAAGAACCGGAGAGGGAAACT
ACAAGAGTGGCTGAGTTTGGGGTCCCTCAGGTTCCTTCTTCAAAAGCCAGCCAGGCAGAGGTTTTAATGTCTGTT
TATTAACTACTGAATAATGCTACCAGGATGCTAAAGATGATGATGATAACCCATTCCAGTACAGTATTCTTTTAA
AATTCGAAAGTATTGAAAGCC
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# FIGURE 4714

CTTCCCTTTTGCGGCCATCACCGAAGCGGGAGCGGCCAAA**ATG**AAGTTTAATCCCTTTGTGACTTCCGACCGAAG
CAAGAATCGCAAAAGGCATTTCAATGCACCTTCCCACATTCGAAGGAAGATTATGTCTTCCCCTCTTTCCAAAGA
GCTGAGACAGAAGTACAACGTGCGATCCATGCCCATCCGAAAGGATGATGAAGTTCAGGTTGTACGTGGACACTA
TAAAGGTCAGCAAATTGGCAAAGTAGTCCAGGTTTACAGGAAGAAATATGTTATCTACATTGAACGGGTGCAGCG
GGAAAAGGCTAATGGCACAACTGTCCACGTAGGCATTCACCCCAGCAAGGTGGTTATCACTAGGCTAAAACTGGA
CAAAGACCGCAAAAAGATCCTCGAACGGAAAGCCAAATCTCGCCAAGTAGGAAAGGAAAAGGGCAAATACAAGGA
AGAAACCATTGAGAAGATGCAGGAA**TAA**AGTAATCTTATATACAAGCTTTGATTAAAACTTGAAACAAAGAAAAA

# FIGURE 4715

MKFNPFVTSDRSKNRKRHFNAPSHIRRKIMSSPLSKELRQKYNVRSMPIRKDDEVQVVRGHYKGQQIGKVVQVYR
KKYVIYIERVQREKANGTTVHVGIHPSKVVITRLKLDKDRKKILERKAKSRQVGKEKGKYKEETIEKMQE

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## FIGURE 4716A

GGAGAAGGCGGGCGGAAGTTCCACGCCAAGATACTGGATTCGGTGCTGAGGCGGCGGCTGCGGCACGGGAAAGGC
TCAGTGACTGAAGCTCCAAAGGCCAGCAGGCTGGTGGGGACGTGACCGAAGCGAGGCTCTGGTTCCCTTTCGGTG
GGCGCCATTTGAGCCTCATCTCTGGCTTCCCCAGGATGCGCCGGCAGCCGGGGAGCGGCTCCGGGCGCGAGGTCT
GAGG**ATG**ATCTTTCCTGTCGCCCGCTACGCGCTCCGGTGGCTGCGACGGCCCGAAGACCGTGCCTTTTCCCGCGC
CGCCATGGAGATGGCCCTCCGAGGCGTGCGGAAAGTCCTCTGTGTGGCCGAAAAAAACGACGCGGCCAAGGGGAT
CGCCGACCTGCTGTCAAACGGTCGCATGAGGCGGAGAGAAGGACTTTCAAAATTCAACAAGATCTATGAATTTGA
TTATCATCTGTATGGCCAGAATGTTACCATGGTAATGACTTCAGTTTCTGGACATTTACTGGCTCATGATTTCCA
GATGCAGTTTCGAAAATGGCAGAGCTGCAACCCTCTTGTCCTCTTTGAAGCAGAAATTGAAAGTACTGCCCAGA
GAATTTGTAGACATCAAGAAAACTTTGGAACGAGAGACTCGCCAGTGCCAGGCTCTGGTGATCTGGACTGACTG
TGATAGAGAAGGCGAAAACATCGGGTTTGAGATTATCCACGTGTGTAAGGCTGTAAAGCCCAATCTGCAGGTGTT
GCGAGCCCGATTCTCTGAGATCACACCCCATGCCGTCAGGACAGCTTGTGAAAACCTGACCGAGCCTGATCAGAG
GGTGAGCGATGCTGTGGATGTGAGGCAGGAGCTGGACCTGAGGATTGGAGCTGCCTTTACTAGGTTCCAGACCCT
GCGGCTTCAGAGGATTTTTCCTGAGGTGCTGGCAGAGCAGCTCATCAGTTACGGCAGCTGCCAGTTCCCCACACT
GGGCTTTGTGGTGGAGCGGTTCAAAGCCATTCAGGCTTTTGTACCAGAAATCTTCCACAGAATTAAAGTAACTCA
TGACCACAAAGATGGTATCGTAGAATTCAACTGGAAAAGGCATCGACTCTTTAACCACACGGCTTGCCTAGTTCT
CTATCAGTTGTGTGTGGAGGATCCCATGGCAACTGTGGTAGAGGTCAGATCTAAGCCCAAGAGCAAGTGGCGGCC
TCAAGCCTTGGACACTGTGGAGCTTGAGAAGCTGGCTTCTCGAAAGTTGAGAATAAATGCTAAAGAAACCATGAG
GATTGCTGAGAAGCTCTACACTCAAGGGTACATCAGCTATCCCCGAACAGAAACAAACATTTTTCCCAGAGACTT
AAACCTGACGGTGTTGGTGGAACAGCAGACCCCGATCCACGCTGGGGGGGCCTTTGCCCAGAGCATTCTAGAGCG
GGGTGGTCCCACCCCACGCAATGGGAACAAGTCTGACCAAGCTCACCCTCCCATTCACCCCACCAAATACACCAA
CAACTTACAGGGAGATGAACAGCGACTGTACGAGTTTATTGTTCGCCATTTCCTGGCTTGCTGCTCCCAGGATGC
TCAGGGGCAGGAGACCACAGTGGAGATCGACATCGCTCAGGAACGCTTTGTGGCCCATGGCCTCATGATTCTGGC
CCGAAACTATCTGGATGTGTATCCATATGATCACTGGAGTGACAAGATCCTCCCTGTCTATGAGCAAGGATCCCA
CTTTCAGCCCAGCACCGTGGAGATGGTGGACGGGGAGACCAGCCCACCCAAGCTGCTCACCGAGGCCGACCTCAT
TGCCCTCATGGAGAAGCATGGCATTGGTACGGATGCCACTCATGCGGAGCACATCGAGACCATCAAAGCCCGGAT
GTACGTGGGCCTCACCCCAGACAAGCGGTTCCTCCCTGGGCACCTGGGCATGGGACTTGTGGAAGGTTATGATTC
CATGGGCTATGAAATGTCTAAGCCTGACCTCCGGGCTGAACTGGAAGCTGATCTGAAGCTGATCTGTGATGGCAA
AAAGGACAAATTTGTGGTTCTAAGGCAGCAAGTGCAGAAATACAAGCAGGTTTTCATTGAAGCGGTGGCTAAAGC
AAAGAAATTGGACGAGGCCTTGGCCCAGTACTTTGGGAATGGGACAGAGTTGGCCCAGCAAGAAGATATCTACCC
AGCCATGCCAGAGCCCATCAGGAAGTGCCCACAGTGCAACAAGGACATGGTCCTTAAGACCAAGAAGAATGGCGG
GTTCTACCTCAGCTGCATGGGTTTCCCAGAGTGTCGCTCAGCTGTGTGGCTTCCTGACTCGGTGCTGGAGGCCAG
CAGGGACAGCAGTGTGTGTCCAGTTTGTCAGCCACACCCTGTGTACAGGTTAAAGTTAAAGTTTAAGCGCGGTAG
CCTTCCCCCGACCATGCCTCTGGAGTTTGTTTGCTGCATCGGCGGATGCGACGACACCCTGAGGGAGATCCTGGA
CCTGAGATTTTCAGGGGGCCCCCCCAGGGCTAGCCAGCCCTCTGGCCGCCTGCAGGCTAACCAGTCCCTGAACAG
GATGGACAACAGCCAGCACCCCCAGCCTGCTGACAGCAGACAGACTGGGTCCTCAAAGGCTCTGGCCCAGACCCT
CCCACCACCCACGGCTGCTGGTGAAAGCAATTCTGTGACCTGCAACTGTGGCCAGGAGGCTGTGCTGCTCACTGT
CCGTAAGGAGGGCCCCAACCGGGGCCGGCAGTTCTTTAAGTGCAACGGAGGTAGCTGCAACTTCTTCCTGTGGGC
AGACAGCCCCAATCCGGGAGCAGGAGGGCCTCCTGCCTTGGCATATAGACCCCTGGGCGCCTCCCTGGGATGCCC
ACCAGGCCCAGGGATCCACCTAGGTGGGTTTGGCAACCCTGGTGATGGCAGTGGTAGTGGCACATCCTGCCTTTG
CAGCCAGCCCTCCGTCACACGGACTGTGCAGAAGGATGGACCCAACAAGGGGCGCCAGTTCCACACATGTGCCAA
GCCGAGAGAGCAGCAGTGTGGCTTTTTCCAGTGGGTCGATGAGAACACCGCTCCAGGGACTTCTGGAGCCCCGTC
CTGGACAGGAGACAGAGGAAGAACCCTGGAGTCGGAAGCCAGAAGCAAAAGGCCCCGGGCCAGTTCCTCAGACAT
GGGGTCCACAGCAAAGAAACCCCGGAAATGCAGCCTTTGCCACCAGCCTGGACACACCCGTCCCTTTTGTCCTCA
GAACAGA**TGA**GCTCAGGGTAGGGTAGAGAACGCCACTTTCTCAGACCTGTCCCCTTTGTGTTTAGAAATGAGTTA
ACCAGGACCAAGTGGCCATTTAGTGTCCTGGAAACTTAGAGGACAGTGTTGGCCTTTGGAGTCGGGCCTTCTTGT
GTTAAGGGGCACAAGGTCCAGATCACTCTGGAGCAGGCCAGCTCTGCTGGACAGTGACCCTCTTCCCAGGCCTCA
GGAGTGACCATAGCCACTGCTGAAAAGTCACGCAGCTGCTCCCTCGGACCCCCCAAGGATGGTTGCTGTTAGCAG
AGGATTGGTGCAGTCCCAGCTGAAGCCCACTGTGTGCCAAAGGAAGAAGCTCCCAGGGCTGCTTCCTTCACCTGC

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# FIGURE 4716B

AGAAAGCCCCAAGTGAGCCACCAGCACTCATGGGGCAGTCCCTGTCCAGGCTGCCCAGGGCTTCTCATAGACGTC .
CTGAGAAGGACGGTGTAATGCAAGGAAATGGCTGTGGTAACACTGATCCTTCAGAAGAAGCTTCATTCCCTCTTA
ATCTAGTTAAGCCAGGACATCCAGAATTCATTGCTTTAATAAAGAACCCAGGCCGGG

5111/6881
# FIGURE 4717

MIFPVARYALRWLRRPEDRAFSRAAMEMALRGVRKVLCVAEKNDAAKGIADLLSNGRMRRREGLSKFNKIYEFDY
HLYGQNVTMVMTSVSGHLLAHDFQMQFRKWQSCNPLVLFEAEIEKYCPENFVDIKKTLERETRQCQALVIWTDCD
REGENIGFEIIHVCKAVKPNLQVLRARFSEITPHAVRTACENLTEPDQRVSDAVDVRQELDLRIGAAFTRFQTLR
LQRIFPEVLAEQLISYGSCQFPTLGFVVERFKAIQAFVPEIFHRIKVTHDHKDGIVEFNWKRHRLFNHTACLVLY
QLCVEDPMATVVEVRSKPKSKWRPQALDTVELEKLASRKLRINAKETMRIAEKLYTQGYISYPRTETNIFPRDLN
LTVLVEQQTPDPRWGAFAQSILERGGPTPRNGNKSDQAHPPIHPTKYTNNLQGDEQRLYEFIVRHFLACCSQDAQ
GQETTVEIDIAQERFVAHGLMILARNYLDVYPYDHWSDKILPVYEQGSHFQPSTVEMVDGETSPPKLLTEADLIA
LMEKHGIGTDATHAEHIETIKARMYVGLTPDKRFLPGHLGMGLVEGYDSMGYEMSKPDLRAELEADLKLICDGKK
DKFVVLRQQVQKYKQVFIEAVAKAKKLDEALAQYFGNGTELAQQEDIYPAMPEPIRKCPQCNKDMVLKTKKNGGF
YLSCMGFPECRSAVWLPDSVLEASRDSSVCPVCQPHPVYRLKLKFKRGSLPPTMPLEFVCCIGGCDDTLREILDL
RFSGGPPRASQPSGRLQANQSLNRMDNSQHPQPADSRQTGSSKALAQTLPPPTAAGESNSVTCNCGQEAVLLTVR
KEGPNRGRQFFKCNGGSCNFFLWADSPNPGAGGPPALAYRPLGASLGCPPGPGIHLGGFGNPGDGSGSGTSCLCS
QPSVTRTVQKDGPNKGRQFHTCAKPREQQCGFFQWVDENTAPGTSGAPSWTGDRGRTLESEARSKRPRASSSDMG
STAKKPRKCSLCHQPGHTRPFCPQNR

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# FIGURE 4718

GCCACTGCTGAAAAGTCACGCAGCTGCTCCCTCGGACCCCCCAAGGATGGTTGCTGTTAGCAGAGGATTGGTGCA
GTCCCAGCTGAAGCCCACTGTGTGCCAAAGGAAGAAGCTCCCAGGGCTGCTTCCTTCACCTGCAGAAAGCCCCAA
·GTGAGCCACCAGCACTCATGGGGCAGTCCCTGTCCAGGCTGCCCAGGGCTTCTCATAGACGTCCTGAGAAGGACG
GTGTAATGCAAGGAAATGGCTGTGGTAACACTGATCCTTCAGAAGAAGCTTCATTCCCTCTTAATCTAGTTAAGC
CAGGACATCCAGAATTCATTGCTTTAATAAAGAACCCAGGCCGGGTGCAGTGGCTCATGCCTGTAATCCCAGCAC
TTTGGGAGGCTGTGGGGGGCGGATTGCCTGAGCTCAGGAGTTCGAGACCAGCCAGGGCAACATGGTGAAACCCTG
TCTCTACTAAAATACAAAAAATTAGCCAGGTGTGGCGGTGTGCGCCTGTAGACCCGGCTACTCAGGAGGCTGAGG
TTGCAGTGAGCTGAGATCGGGCCATTGCACTCCAGCCTGGGCAAAAAGAGTGAAACTCTGTCTCAAGAAAAAAAA
AAAAA

# FIGURE 4719A

CTAGCCCGGCGCGGCCCGGCAGCGAGAGCGGCGCC**ATG**GAGGCCACCGGGGTGCTGCCGTTCGTGCGTGGCGTGG
ACCTCAGCGGCAACGACTTCAAGGGCGGCTACTTCCCTGAGAATGTCAAGGCCATGACCAGCCTGCGGTGGCTGA
AGCTGAACCGCACTGGCCTCTGCTACCTGCCCGAGGAGCTGGCCGCCCTGCAGAAGCTGGAACACTTGTCTGTGA
GCCACAACAACCTGACCACGCTTCATGGGGAGCTGTCCAGCCTGCCATCGCTGCGCGCCATCGTGGCCCGAGCCA
ACAGTCTGAAGAATTCCGGAGTCCCCGATGACATCTTCAAGCTAGATGATCTCTCAGTCCTGGACTTGAGCCACA
ACCAGCTGACAGAGTGCCCGCGGGAGCTGGAGAACGCCAAGAACATGCTGGTGCTGAACCTCAGCCACAACAGCA
TCGACACCATCCCCAACCAGCTCTTCATCAACCTCACTGACCTACTATACCTGGACCTCAGCGAGAACCGCCTGG
AGAGCCTGCCCCGCAGATGCGCCGCCTGGTGCACCTGCAGACGCTCGTGCTCAATGGAAACCCCCTGCTGCATG
CACAGCTCCGGCAGCTCCCAGCGATGACGGCCCTGCAGACCCTGCACCTGCGGAGCACCCAGCGCACCCAGAGCA
ACCTGCCCACCAGCCTGGAGGGTCTGAGCAACCTCGCAGACGTGGATCTGTCCTGCAATGACCTGACACGGGTGC
CCGAGTGTCTGTACACCCTCCCCAGCCTGCGCCGCCTCAACCTCAGCAGCAACCAGATCACGGAGCTGTCCCTGT
GCATAGACCAGTGGGTGCACGTGGAAACTCTGAACCTGTCCCGAAATCAGCTCACCTCACTGCCCTCAGCCATTT
GCAAGCTGAGCAAGCTGAAGAAGCTGTACCTGAATTCCAACAAGCTGGACTTTGACGGGCTGCCCCTCAGGCATTG
GCAAGCTCACCAACCTGGAAGAGTTCATGGCTGCCAACAACAACCTGGAGCTGGTCCCTGAAAGTCTCTGCAGGT
GCCCAAAGCTGAGGAAACTTGTCCTGAACAAGAACCACCTGGTGACCCTCCCAGAAGCCATCCATTTCCTGACGG
AGATCGAGGTCCTGGATGTGCGGGAGAACCCCAACCTGGTCATGCCGCCCAAGCCCGCAGACCGTGCCGCTGAGT
GGTACAACATCGACTTCTCGCTGCAGAACCAGCTGCGGCTAGCGGGTGCCTCTCCTGCTACCGTGGCTGCAGCTG
CAGCTGCAGGGAGTGGGCCCAAGGACCCTATGGCTCGCAAGATGCGACTGCGGAGGCGCAAGGATTCAGCCCAGG
ATGACCAGGCCAAGCAGGTGCTGAAGGGCATGTCAGATGTTGCCCAGGAGAAGAACAAAAAGCAGGAGGAGAGCG
CAGATGCCCGGGCCCCCAGCGGGAAGGTGCGGCGTTGGGACCAGGGCCTGGAGAAGCCCCGCCTTGACTACTCCG
AGTTCTTCACGGAGGACGTGGGCCAGCTGCCCGGACTGACCATCTGGCAGATAGAGAACTTCGTGCCTGTGCTGG
TGGAGGAAGCCTTCCACGGCAAGTTCTACGAGGCTGACTGCTACATTGTGCTCAAGACCTTTCTGGATGACAGCG
GCTCCCTCAACTGGGAGATCTACTACTGGATTGGCGGGGAGGCCACACTCGACAAGAAAGCTTGCTCTGCCATCC
ACGCTGTCAACTTGCGCAACTACCTGGGTGCTGAGTGCCGCACTGTCCGGGAGGAGATGGGCGATGAGAGCGAGG
AGTTCCTGCAGGTGTTTGACAACGACATCTCCTACATTGAGGGTGGAACAGCCAGTGGCTTCTACACTGTGGAAG
ACACACACTATGTCACCAGGATGTATCGTGTGTATGGGAAAAAGAACATCAAGTTGGAGCCTGTGCCCCTCAAGG
GGACCTCTCTGGACCCAAGGTTTGTTTTCCTGCTGGACCGAGGGCTAGACATCTACGTATGGCGGGGGGCCCAGG
CCACACTGAGCAGCACCACCAAGGCCAGGCTCTTTGCAGAGAAAATTAACAAGAATGAGCGGAAAGGGAAGGCTG
AGATCACACTGCTGGTGCAGGGCCAGGAGCTCCCAGAGTTCTGGGAGGCACTGGGTGGGGAGCCCTCTGAGATCA
AGAAGCACGTGCCTGAAGACTTCTGGCCGCCGCAGCCCAAGCTGTACAAGGTGGGCCTGGGCTTGGGCTACCTGG
AGCTGCCACAGATCAACTACAAGCTCTCCGTGGAACATAAGCAGCGTCCCAAGGTGGAGCTGATGCCAAGAATGC
GGCTGCTGCAGAGTCTGCTGGACACGCGCTGCGTGTACATTCTGGACTGTTGGTCCGACGTGTTCATCTGGCTCG
GCCGCAAGTCCCCGCGCCTGGTGCGCGCTGCCGCCCTCAAGCTGGGTCAGGAGCTGTGCGGGATGCTGCACCGGC
CACGCCATGCCACGGTCAGCCGCAGCCTCGAGGGCACCGAGGCGCAGGTGTTCAAGGCCAAGTTCAAGAATTGGG
ACGATGTGTTGACGGTGGACTACACACGCAATGCGGAGGCCGTGCTGCAGAGCCCGGGTCTCTCCGGGAAGGTGA
AACGCGACGCCGAGAAGAAAGACCAGATGAAGGCTGACCTCACTGCGCTTTTCCTGCCGCGGCAGCCGCCCATGT
CGCTGGCCGAGGCGGAGCAGCTGATGGAGGAGTGGAACGAAGACCTAGACGGCATGGAGGGTTTCGTGCTGGAGG
GCAAGAAGTTTGCGCGGCTGCCGGAAGAGGAGTTTGGCCACTTCTACACGCAGGACTGCTACGTCTTCCTCTGCA
GGTACTGGGTGCCTGTGGAGTACGAGGAGGAGGAAAAGAAGGAAGACAAGGAGGAGAAGGCCGAGGGCAAAGAAG
GCGAGGAAGCAACCGCTGAGGCAGAGGAGAAGCAGCCAGAGGAGGACTTCCAGTGCATCGTGTACTTCTGGCAGG
GCCGTGAAGCCTCCAATATGGGCTGGCTCACCTTCACCTTCAGCCTGCAAAAGAAGTTCGAGAGCCTCTTCCCTG
GGAAGCTGGAGGTGGTACGCATGACGCAGCAGCAGGAGAACCCCAAGTTCCTGTCCCATTTCAAGAGGAAGTTCA
TCATCCACCGGGGCAAGAGGAAGGCGGTCCAGGGCGCCCAACAGCCCAGCCTCTACCAGATCCGCACCAACGGCA
GCGCCCTCTGCACCCGGTGCATCCAGATCAACACCGACTCCAGCCTCCTCAACTCCGAGTTCTGCTTCATCCTCA
AGGTTCCCTTTGAGAGTGAGGACAACCAGGGCATCGTGTATGCCTGGGTGGGCCGGGCATCAGACCCTGACGAAG
CCAAGTTGGCAGAAGACATCCTGAACACCATGTTTGACACCTCCTACAGCAAGCAGGTTATCAACGAAGGTGAGG
AGCCTGAGAACTTCTTCTGGGTGGGCATTGGGGCACAGAAGCCCTATGATGACGATGCCGAGTACATGAAACACA
CACGTCTCTTCCGGTGCTCCAACGAGAAGGGCTACTTTGCAGTGACTGAGAAATGCTCCGACTTTTGCCAAGATG

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# FIGURE 4719B

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ACCTGGCAGATGATGACATCATGTTGCTAGACAATGGCCAAGAGGTCTACATGTGGGTGGGGACCCAGACTAGCC
AGGTGGAGATCAAGCTGAGCCTGAAGGCCTGCCAGGTATATATCCAGCACATGCGGTCCAAGGAACATGAGCGGC
CGCGCCGGCTGCGCCTGGTCCGCAAGGGCAATGAGCAGCACGCCTTTACCCGCTGCTTCCACGCCTGGAGCGCCT
TCTGCAAGGCCCTGGCCTAAGACAGGCTGGCACAGCCCCAGGCTTGGTGAGGAAGAGGAAGGGGCCTCATCCACT
GTCTGCTAGCAAAGAATGTACTCAGGTGACACCACCTGCTCCAGCCACGTCCAGTGCCACAGTCCCCAGTAGCCT
CAAGCAGCACCAATGGGGATGACCCTGACAGGTGCCCTCAGGGGTCTGGGAAATCCAACTCTCTCCACAGTGTGA
GTGCACGTGTGAAGCCCCCTCACTCTTCCGCTAGGGATAAAGCAGATGTGGATGCCCTTTAAGAGATATTAAATG
CTTTTATTTTCAATATT
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# FIGURE 4720

MEATGVLPFVRGVDLSGNDFKGGYFPENVKAMTSLRWLKLNRTGLCYLPEELAALQKLEHLSVSHNNLTTLHGEL
SSLPSLRAIVARANSLKNSGVPDDIFKLDDLSVLDLSHNQLTECPRELENAKNMLVLNLSHNSIDTIPNQLFINL
TDLLYLDLSENRLESLPPQMRRLVHLQTLVLNGNPLLHAQLRQLPAMTALQTLHLRSTQRTQSNLPTSLEGLSNL
ADVDLSCNDLTRVPECLYTLPSLRRLNLSSNQITELSLCIDQWVHVETLNLSRNQLTSLPSAICKLSKLKKLYLN
SNKLDFDGLPSGIGKLTNLEEFMAANNNLELVPESLCRCPKLRKLVLNKNHLVTLPEAIHFLTEIEVLDVRENPN
LVMPPKPADRAAEWYNIDFSLQNQLRLAGASPATVAAAAAAGSGPKDPMARKMRLRRRKDSAQDDQAKQVLKGMS
DVAQEKNKKQEESADARAPSGKVRRWDQGLEKPRLDYSEFFTEDVGQLPGLTIWQIENFVPVLVEEAFHGKFYEA
DCYIVLKTFLDDSGSLNWEIYYWIGGEATLDKKACSAIHAVNLRNYLGAECRTVREEMGDESEEFLQVFDNDISY
IEGGTASGFYTVEDTHYVTRMYRVYGKKNIKLEPVPLKGTSLDPRFVFLLDRGLDIYVWRGAQATLSSTTKARLF
AEKINKNERKGKAEITLLVQGQELPEFWEALGGEPSEIKKHVPEDFWPPQPKLYKVGLGLGYLELPQINYKLSVE
HKQRPKVELMPRMRLLQSLLDTRCVYILDCWSDVFIWLGRKSPRLVRAAALKLGQELCGMLHRPRHATVSRSLEG
TEAQVFKAKFKNWDDVLTVDYTRNAEAVLQSPGLSGKVKRDAEKKDQMKADLTALFLPRQPPMSLAEAEQLMEEW
NEDLDGMEGFVLEGKKFARLPEEEFGHFYTQDCYVFLCRYWVPVEYEEEEKKEDKEEKAEGKEGEEATAEAEEKQ
PEEDFQCIVYFWQGREASNMGWLTFTFSLQKKFESLFPGKLEVVRMTQQQENPKFLSHFKRKFIIHRGKRKAVQG
AQQPSLYQIRTNGSALCTRCIQINTDSSLLNSEFCFILKVPFESEDNQGIVYAWVGRASDPDEAKLAEDILNTMF
DTSYSKQVINEGEEPENFFWVGIGAQKPYDDDAEYMKHTRLFRCSNEKGYFAVTEKCSDFCQDDLADDDIMLLDN
GQEVYMWVGTQTSQVEIKLSLKACQVYIQHMRSKEHERPRRLRLVRKGNEQHAFTRCFHAWSAFCKALA

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## FIGURE 4721A

AGACTGTGGAGCATGGCTTCCCCAATCAGCCCAGCGCCCTGGCCTTCGACCCGGAACTTCGCATCATGGCCATCG
GCACCAGGTCTGGGGCTGTCAAGATCTATGGTGCACCTGGCGTGGAGTTCACAGGCCTGCACCGGGATGCAGCCA
CTGTCACACAGATGCACTTCTTGACCGGCCAGGGCCGCCTCCTGTCCCTGCTTGATGACAGCAGTCTGCATCTCT
GGGAGATTGTCCACCATAATGGCTGTGCCCACCTGGAAGAAGCACTCAGTTTCCAGCTGCCCAGCCGGCCCGGCT
TTGATGGTGCCAGTGCTCCGCTCAGCCTTACCCGAGTCACAGTGGTCCTGCTGGTGGCTGCCGGCGACATAGCAG
CCCTGGGCACTGAGGGCAGCAGTGTCTTCTTCCTGGATGTTACCACCCTGACCCTGCTCGAGGGGCAGACGCTTG
CCCCAGGCGAGGTTCTGCGCAGCGTGCCAGACGACTACCGCTGTGGGAAGGCACTGGGCCCCGTGGAGTCACTCC
AGGGACACCTGCGGGACCCCACAAAGATTCTCATTGGCTACAGCCGGGGCCTGCTGGTCATCTGGAACCAGGCCT
CGCAGTGTGTGGACCACATCTTCCTGGGGAACCAGCAGCTGGAGAGCCTATGCTGGGGGCGTGATAGCAGCACTG
TGGTCAGCTCACACAGCGATGGCAGCTATGCTGTCTGGTCTGTGGATGCCGGCAGCTTCCCAACGCTGCAGCCCA
CGGTAGCCACCACACCTTACGGCCCCTTTCCCTGCAAGGCCATTAACAAGATTCTGTGGCGGAACTGTGAATCTG
GGGGCCACTTTATCATCTTCAGCGGTGGCATGCCCCGTGCCAGCTATGGTGACCGCCACTGTGTAAGTGTGCTTC
GAGCCGAGACATTGGTGACGCTGGACTTCACTTCCCGCATCATCGACTTCTTCACAGTGCACAGCACACGGCCCG
AGGATGAATTTGATGACCCCCAGGCCCTGGCTGTGCTGCTGGAAGAGGAGCTGGTGGTGCTGGACCTGCAGACTC
CTGGCTGGCCAGCTGTGCCTGCCCCATACCTGGCCCCGCTGCACTCCTCTGCAATCACTTGCTCGGCCCACGTGG
CCAGTGTCCCCGCCAAGCTGTGGGCCCGCATTGTGAGCGCTGGCGAGCAGCAGAGCCCCCAGCCTGTCTCCAGTG
CCTTGAGCTGGCCCATCACTGGGGGCCGAAACCTGGCCCAGGAGCCGTCACAGCGAGGGCTGCTGCTGACGGGCC
ATGAGGACGGCACCGTGAGGTTCTGGGATGCCTCGGGTGTGGCGCTGCGGCCGCTCTATAAGCTGAGCACAGCTG
GCCTCTTCCAGACAGACTGTGAGCACGCTGACAGCCTGGCCCAGGCTGCCGAGGACGACTGGCCACCCTTCCGCA
AGGTGGGCTGCTTCGATCCCTACAGTGACGATCCCCGGCTTGGCGTGCAGAAGGTTGCTCTCTGCAAGTATACAG
CCCAGATGGTGGTGGCTGGCACTGCAGGCCAGGTGCTGGTACTGGAGCTTAGTGATGTGCCGGTGGAGCAGGCGG
TCAGCGTGGCCATCATAGACCTCCTCCAGGACCGCGAGGGCTTCACATGGAAGGGCCACGAGCGGCTGAGCCCAC
GCACGGGGCCGCTGCCCTGGCCTGCTGGCTTCCAGCCCCGTGTCCTGGTGCAGTGCCTGCCGCCAGCTGCTGTAA
CCGCTGTCACACTCCACACCGAGTGGAGCCTCGTGGCTTTTGGCACCAGTCATGGCTTTGGCCTCTTCGACTACC
AGCGCAAGAGCCCTGTGCTGGCCAGGTGCACTCTTCACCCCAATGACTCCCTGGCCATGGAGGGTCCGCTCTCCC
GGGTGAAGTCTCTCAAGAAGTCACTGCGCCAGTCTTTCCGGCGCATTCGCAAGAGTCGTGTCTCTGGCAAGAAGC
GGGCTGCTAATGCCAGCAGCAAGGAAGCCAATGCACAGCTGGCTGAGCAGGCCTGCCCCCACGACGTGGAGATGA
CGCCCGTGCAGCGCCGCATTGAGCCCCGCTCTGCCGATGACTCCTTGTCGGGTGTCGTGCGTTGCCTATACTTTG
CCGACACATTCCTTCGAGATGGGGCCCACCACGGGCCCACCATGTGGGCTGGCACCAACTCAGGCTCTGTGTTCG
CCTATGCACTGGAGGTGCCGGCAGCAGCAGTGGGTGGTGAGAAGCGGCCTGAGCAAGCGGTGGAGGCCGTGCTGG
GCAAGGAGGTGCAGCTGATGCACCGGGCGCCTGTGGTGGCCATTGCCGTGTTGGACGGGCGTGGCCGCCCACTGC
CCGAGCCCTACGAGGCCTCACGGGACCTGGCGCAGGCACCTGACATGCAGGGTGGTCACGCTGTGCTCATCGCAT
CTGAGGAGCAGTTCAAGGTGTTCACACTGCCCAAGGTGAGCGCGAAGACCAAGTTCAAGCTGACGGCCCATGAGG
GCTGTCGTGTGCGCAAGGTGGCACTGGCCACGTTTGCCAGTGTGGCCTGCGAGGACTATGCTGAGACCTGCCTGG
CCTGCCTCACCAACCTGGGTGACGTCCACGTCTTCTCGGTGCCTGGCCTGCGGCCCCAGGTGCACTATTCCTGCA
TCCGGAAGGAGGACATCAGCGGCATCGCTTCGTGCGTCTTTACGCGCCATGGCCAGGGCTTTTACCTGATATCCC
CATCAGAATTTGAACGCTTCTCCCTAAGTGCCCGGAACATCACAGAGCCGCTCTGCTCTCTGGACATTAACTGGC
CCCGCGATGCCACCCAGGCCAGTTACAGGATCCGAGAGTCACCCAAGCTGAGCCAGGCTAACGGGACCCCAAGCA
TCCTGCTGGCCCCACAGAGCCTTGATGGAAGCCCTGATCCAGCCCACAGCATGGGACCTGACACCCCGGAGCCAC
CCGAGGCTGCACTCTCACCCATGTCCATCGACTCAGCCACCAGTGCTGACACCACGCTGGACACGACAGGGGACG
TCACAGTGGAAGATGTGAAGGATTTCCTGGGCTCCTCTGAGGAGTCAGAGAAGAACCTGAGGAACCTGGCAGAAG
ACGAGGCCCACGCCTGTGCCATCCTGATCAAATGAGGAAGGCCAGAACTATCCCGACCTCCACCTGCCCTGCTCG
GAGCTGGAGTGCTGGATCCCTGGCACCTGCCTGGCCCCTTAACATAGAACCACGCCTGCTAACCTGTAGGCTCCA
CTGGGACCTGCTGTCCTGTCCCGCCTGACCCTGGGCCCTGGAGCAGCACCAGCCCCAGGGTGTGGGCCTGGGACC
TGGGCCAGAACTGAGCCCTCCTGCAGGCATTTGGCTGCCCTGGGGGCCCACTGCCTAGGGAAGAGGACAGGTGGG
GCCCAGCACCTGTGCCACCTCCCCCCCTCCACACACCATCCTTCCCCCTCACTTTGCAGAGTATTTTTCCTTTTT
TTTTTTTTCTTAAAGACGGAGTCTTGCTCTGTCGCCCAGGCTGGAGTGCAGTGGCCCCATCTCTGCTCACTGCA
AGCCCCGCCTTCTGGGTTCCCGCCATTCTTCTGCCTCAGCCTCCCAAGTAGCTGGGACTACAGGCGCCCACCACC

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## FIGURE 4721B

ACGCCCAGCTAATTTTTTCTGTATTTTTAGTAGAGATGGGGTTTCACCATGTTAGCCAGGATGGTCTCG

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# FIGURE 4722

MMKFRFRRQGADPQREKLKQELFAFNKTVEHGFPNQPSALAFDPELRIMAIGTRSGAVKIYGAPGVEFTGLHRDA
ATVTQMHFLTGQGRLLSLLDDSSLHLWEIVHHNGCAHLEEALSFQLPSRPGFDGASAPLSLTRVTVVLLVAASDI
AALGTEGSSVFFLDVTTLTLLEGQTLAPGEVLRSVPDDYRCGKALGPVESLQGHLRDPTKILIGYSRGLLVIWNQ
ASQCVDHIFLGNQQLESLCWGRDSSTVVSSHSDGSYAVWSVDAGSFPTLQPTVATTPYGPFPCKAINKILWRNCE
SGGHFIIFSGGMPRASYGDRHCVSVLRAETLVTLDFTSRIIDFFTVHSTRPEDEFDDPQALAVLLEEELVVLDLQ
TPGWPAVPAPYLAPLHSSAITCSAHVASVPAKLWARIVSAGEQQSPQPVSSALSWPITGGRNLAQEPSQRGLLLT
GHEDGTVRFWDASGVALRPLYKLSTAGLFQTDCEHADSLAQAAEDDWPPFRKVGCFDPYSDDPRLGVQKVALCKY
TAQMVVAGTAGQVLVLELSDVPVEQAVSVAIIDLLQDREGFTWKGHERLSPRTGPLPWPAGFQPRVLVQCLPPAA
VTAVTLHTEWSLVAFGTSHGFGLFDYQRKSPVLARCTLHPNDSLAMEGPLSRVKSLKKSLRQSFRRIRKSRVSGK
KRAANASSKEANAQLAEQACPHDVEMTPVQRRIEPRSADDSLSGVVRCLYFADTFLRDGAHHGPTMWAGTNSGSV
FAYALEVPAAAVGGEKRPEQAVEAVLGKEVQLMHRAPVVAIAVLDGRGRPLPEPYEASRDLAQAPDMQGGHAVLI
ASEEQFKVFTLPKVSAKTKFKLTAHEGCRVRKVALATFASVACEDYAETCLACLTNLGDVHVFSVPGLRPQVHYS
CIRKEDISGIASCVFTRHGQGFYLISPSEFERFSLSARNITEPLCSLDINWPRDATQASYRIRESPKLSQANGTP
SILLAPQSLDGSPDPAHSMGPDTPEPPEAALSPMSIDSATSADTTLDTTGDVTVEDVKDFLGSSEESEKNLRNLA
EDEAHACAILIK

## FIGURE 4723A

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GAGGATGCAGAGTGGGAGACCTTAAAACCGTCTGATCTGGCTGCTAAAGCGAGTGTCTGACGACCACCCATTAAC
ACCAGCGAGTAGCGTTTGCTCACGGCTTTAGGATAAGAAGCCTGGAATGGTCCCCCCTCCGCCGGGAGAAGAAAG
CCAGACGGTCATCCTTCCACCTGGCTGGCAGAGCTACCTGTCGCCTCAGGGCCGGCGGTACTATGTCAACACGAC
CACCAATGAGACCACCTGGGAACGTCCCAGCAGTTCTCCTGGGATTCCAGCCAGCCCTGGCTCTCACAGGAGCTC
TCTGCCTCCAACAGTGAATGGATACCACGCATCAGGGACCCCAGCGCACCCTCCAGAGACTGCCCACATGAGTGT
CCGAAAATCCACCGGTGATTCCCAGAACCTGGGATCCTCATCGCCAAGCAAAAAGCAGAGCAAGGAAAACACCAT
CACAATAAACTGTGTGACGTTCCCTCACCCAGACACGATGCCGGAACAGCAGCTGCTGAAACCAACCGAGTGGAG
CTACTGCGACTACTTCTGGGCTGATAAGAAGGACCCCCAAGGCAACGGCACCGTGGCTGGGTTTGAACTACTGCT
CCAGAAACAGCTGAAGGGCAAACAAATGCAGAAGGAAATGTCAGAATTCATCCGGGAAAGGATAAAGATTGAAGA
AGACTATGCGAAGAACTTAGCTAAGCTCTCTCAGAACTCCTTGGCTTCACAGGAGGAAGGCTCCTTGGGAGAGGC
GTGGGCCCAGGTGAAGAAGAGCCTGGCGGACGAAGCAGAAGTTCACCTCAAGTTCTCTGCCAAGCTTCACAGCGA
GGTGGAGAAGCCCCTGATGAACTTCCGTGAGAACTTCAAGAAAGACATGAAGAAGTGCGACCACCACATTGCCGA
CCTTCGCAAGCAGCTCGCCAGCCGCTATGCCTCGGTGGAGAAGGCCCGGAAAGCCCTCACAGAGCGGCAGAGAGA
CCTGGAGATGAAGACCCAGCAGCTGGAGATCAAGCTGAGCAACAAGACAGAGGAGGACATCAAGAAGGCGCGGAG
AAAGTCCACACAGGCTGGAGACGACCTCATGCGCTGTGTGGATCTCTACAACCAGGCCCAGTCCAAATGGTTTGA
AGAGATGGTGACCACCACATTGGAGCTAGAGCGGCTGGAGGTGGAGAGGGTAGAGATGATCCGGCAGCACCTGTG
CCAGTACACGCAGCTGCGGCATGAAACAGACATGTTCAACCAAAGCACAGTCGAGCCCGTGGATCAGCTGCTTCG
AAAAGTGGACCCGGCCAAAGACAGGGAGCTGTGGGTCAGAGAGCACAAGACGGGCAACATCCGCCCTGTGGACAT
GGAGATCTAGATGGGCCTGTGCAGCTTCGGGGGGGTCCTGCTGGGXGAXXGGGGGGGXCXTGGGCTCCCACCATGGG
GCCCATGCCGAGTGGATGCCCCCCACCCTCTCTCCTGGGCCACTGAGGAGAGGGGAGAGAGCTGGTGATTCCAGA
AGGGTGACCCGGACAGCCTAGCTGGGGGGCTCCCCCATATTCCCAGGCCCAGAAGACAGACCCACAGCCCTGCCCT
TGTCTCTGAGGCTGAAGACCCCCTGACTCCCATGCTGTGCTTGCCGCTCTGAAACAAACAGAGGCTGGAACTTTG
TGGTCCTTGCCGAGTTTTGTAGGGGTCACTGTCACATGCTTGTGCCCTGGAAGCCCCAAGGCTCTTCCTCCAGCT
GGCTCCCTTGTCTCCAGGGCTTTGGAGGATCAGGGTAGGGAGGGCTCTGTCTCTAAGCCAGGTGTCAGGATCAGA
ATCATGGGTAGAAGGTGCCATTCAGCTCACAGCCGCACCCAGAATCCTTTGCAGCCCTCCTTCTTTATTTTTTTC
CCATTGCATTCTGGGAGTCCACATCTGGCTTTCTCAGCCACTGTTCATCACCAGGGGTTTTAGGAGGAAGGCTTG
GCTCCTGTCTTCCCAGACCCACCATGCCTGGAGAGGTCAGGATGGAACTACCTCATTCGGCAAATTAGCCCCAAA
TTGAGCGCTGAATCGTGTCCCATGAGATCAGGCGCCATCTGTAAAGTCTCCTCTGGAAATGCCAATCCATCCTTC
CCCCAGCTGCTTCCTCGGGGAGGCCCCTGCCCCCACCCTGCCAGCCCTTCCCAGTCTCATTAGAGGAAGCTTTCC
AAAGTTCTCAGTTATCAAGACCTCATCCAGCTCGTCCAAAGGCTTCAGGGATGGAAACAAACCAGCTCGTCTCAG
AGGCCAGCAAGCTGGGGCCTGTCCGCCACGGTGCCCTGTGCACCTTTGGGCTGCCCTGGCCCCCACTCTCCCGGG
CCGCCCACCACAGGCTCTTAATGGGGCCGGGTCAGTCCTACATGTGAGATGGGTTAGGGCAAGTCTTTGCCATCC
CCCAGATGGCTCTGTCTTCTTGTGTATGGCAGGGCTGGGACTGCTGTCCCTTGTACAGTTTTCTGTCACTGGTGG
GCACTGGACAGGCATAGCAGACTCTCTTGTGGCCACACTAGGTTGTCGCCTTTCAGGCAGTGTCCCGCCACCTTT
GCTTCCCGCTCCTTCTGGACATTCCAGAGCCCTGCACCAAACCCTTACTTGGTGTCTGCACCTCCTTTCCCTCTC
TCCATCTTCCAATCCCTGGAAAAGTCTGGTCTGAGTGTGACTTGGGAAGCTTTCAGTGCTGCTGTTTGGCCCAGC
TCATTACTTTCTCCCTTTCTCTACCACAGCAAACACATTCTCCACCATGTCAGTCTAAAGAGTCTAAAGGGGCCG
GGAGAAGCATGAGCGAGGGGCAGATTCTAGTCGGGAGCCCATGCCCTGGAAATCCATCTTTCTTCATCTTTCCCA
TTGACCACTTTGGGTTTGACCTGCACATCTGCAGTGAGGGCAGAATTCAACAAGCACAACTCACTGGTCTTTCAG
TCAACGTGCTAGAAACCGATGACTTATTAATCTCTAATTTTTTGGCGCCTCTTTCATTGAATGAGAATTGCTTTC
GTATAGTTCACATTAGAAAAATGCCTAATATACTAAAGTAAACCAAACGTTGTCACTTTTCTCTTGTTCTTGAAA
CATTGCAACCAAAAAGGTCAGCACAAAGGCCTTCACCTACGTGAAGACCTCCTGGTAGGATCTGTCCATGGGATG
GAGAACCACTCTGTCCAGATCTGGGGTTGGGTCATGACACCAGCTACCAATTTTAGAATATTATTTCTTGGTTTC
TTTATGAAAAATGGGTGCTAGTGGTAATTGCTTTGTGGCTTAGTAAACTACTCTGTGGATGATTTCCAAACATTC
AAAGCCAATAGCCTTGTTATTAACAAGATATTTTGAGTACAATATGGCTCATTGACTTTTCCATTACATCTGAGG
ATTCCAGAGTCCTCTGTTCATCCCTGGGATAGAGTGAGCCCTCTTGCGTCTTCCAGGGTAGCTCAGGTTGGCCCA
GTTTGGGCCAGTCCATTTTTGGAGGTCACTCTTTCCCCCCTCATCCCCTCACCTCCTTCTCTTTACCCCCTTCAC
GTACTTCCTTTCTTTCTTCCCTCTGTTATTCATTCATCAAGCAGGTTAAAGCCATTGTGCTAAGATCTAATCTGA
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5120/6881
# FIGURE 4723B

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GGACACTATAATGGCCCTGTCGTCAGGGAAGCCCGTGATCGCTCGTTTTCAGGGGTCTTACCGGTCAGCAACCTT
GGCATTGATACATAGGCACTCTACAGAATTTAAGTTTTCAGAGGTAAGTCTGTTGTTCTGATTAATCTGCATTCA
TTCAGCGAATGCTCAAGACAAGCCAGGCATGCTGAGAAGCGGCGCTCTAGTTGTATGTAAGATGGGCATTCCTCT
GCTCTCCTCTATTCTCCATGTCGACTGAGAAGAGTATAATAAGAACATTGTACCCTCTCCACACTTAACCCTCTG
GGATTCTTTATTATAATATAAACCACCGTCGTGAGGCATTTACCTGTTGGATGGAAGGTAGACAGCAACAAGATT
TTAATCACCTGGTCACCAGACCCTCACGGCCCATATCCAATTCGAATTTCAGAAATTTCTCTGTTTGCTTTAAAT
AACTCTTTACAAATAAGGGTCGGGCACGGTGGCTCACGCCTGTAATCCCAGCTCTTTGGGAGGCCGAGGTGGGCA
GATCACGAGGTCAGGAGATCGAGACCATCCTGGCTAACATGGTGAAACCCCGTCTCTGCTAAAAATACAAAAAAT
TAGCCAGATGTGGTGGTGCACACCTGTAGTCCCAACTATTCGGCAGGCTGAGGCAGTAGAATCGCTTGAACCTGG
GAGGCGGAGATTGCAGTGAACCAAGATCGGGCCACTGCACTCCAGCTTGGGTGACAGAGCAAGACTCCATCTCAA
AAAAATTATAAATAACTCTTTGCAAATAGGAAAGTGAAGCTCAAGGGTAACCAGTGAGGCTATGAAATTGCCAGT
GAATTAAGACCAGGGCTAGAGTCAACAGTCCAGAACCCCTATCCGTATGAACAGGGGCCCGTTTCTGGTTGAAAT
CAAGGTTAGGATGCAACTGAGAAAATAAAAGACTGCACTTTGGAGAGGCAAGCACGCTATCCGGGTTGTTGTTTT
GTTTTATGTCTTGGTGCTTAGGTGAGGACTTAGCTGGGTTTATTCAAAGTGGGCGGGTCTGGGCTATTCTTGAGA
ATGTCCCTTCCATTTCTGAGAACAAGTCAGCCCCTTCTACCTGCCTCCACCCAGGAGACTGATGCACAAGATCTG
TTTGTGAAAGCCTGATTTAAAAAGAAAAAAAAAATTCCTTAAGCCAAATGGTGTTCCAAGTTGGTTGCTGTGACA
ACCTCCAGGAAGAGCCACTTGTTACCCTCTATTCTTTCTAGTGCTTTCAGTCAGTGGCAACACATAGGCCCCTTG
GACCGTGGGGATGGCGGCCCTGAGATTCTGTCAGTGGGACCACCCTGGGCCTCCTTTCTACCTCCACTCAGCACC
CTGTTGGCCAAGGAGAATTTCTGCGGTGGGAGGCAGTGCTCTGCTAGTCAGGATTGATAAACAGCTGGGCACACC
GAAACAGTGTACCAACGAATTCACCAACCAGGGGTTTCTTTCCCTACCCTTTGTGAAAACCAATCAATTACTAGA
TGAGTGGATGGATGCAGAAAAATCTGGGCTGAGCCAAAGTCCCTTTTGGAAATACAAGCCATAACATTCGAAGGA
CATCAGCGACCTTGGCTTGTTTAGGTGATTTTACTTCCAGCTGCAGGTAGTCTTGACAAGGAGTGTTTAAACAGA
AGGCTCAAGATGCATTCCTTGTGTAGGTCGGAGAGAGCACTTCTAATGTTAAGTGGGGTACAGATCAGCTGCCCC
CCCACGTAGCCTGGACATCGTCTTATCCCCATAATCCTTGCCATCCCTACAAGGCCCATCGCCACCACCTTTTCC
CAGGTTTATTGAGGTATGATTGACATCCAGTAAAATTCACCCTTTGGAAATATACAGCTCTGTGAATTTTGACAA
ATTTAGTGTCTTGTGACCATCACCAAGATCAACCTGTTTTTAACCCTCCAAAAAATTCCCTTCTCCTGCCCTCTT
TCCCTGGCAACCCTGATTGATTATCTGATCCTATAATTTTGCCTTTTCTAGAATGTCATATAAATGGAGTCACAC
TGATGTCGCCTTTTGAGTCTGGCATCTTTCCCTCAGCTTAATGCTTTTGAGTCATTCATGATGTGTGCGTGTGGT
TTGTTCCTTCTCCTTGCCGGGAAGTATTTCATTGCATGGGCGTACTACTCTGCTTCTTTATTTTTACACTGAGCC
TTTCGCCCTGGAAGTTCTTGGCCCAGGGTCTTCAACTTGTTTGCACGACCACTTCCAGCTTGCTGCTTCCTTCAG
TTCCCCAGGCTCCTCCTCCAAATGCCAGCTGTGCCCACAAGCTGTTCTTAGGGCTCACACTCGCCTTTTGGCGCG
TGGTGGGTTTTTGGTAGTGCAGAAAGAATCCAGGGATGGGAGGGGAAGGGACGGATGGGTGCTCAATTGCTGCTC
ACGTCTGCTGCAACCTGAAGCTTGCATCTCAGCCAGCAGATCTGCTCCCTTCTGGGACCCAGGCTTCAGTGTCAC
ACGGTCCTTGGCTATGTATTGGGCGTTGGAGGCTTTGAAAGGCGAGCAGAAGCAGCATGGACAAGAAGGCTGGGG
CTGGCCCTGGGGGCTCATCATGATGCTTTCCTGGATCTGTTGCTTCATCTGCAAGCTGAGGGTGTTTGTTCTAGAT
GAGTGTCTCAGGCCACCGGCAACTGCATGTACCTCCTCCCTTTCTCATTTCCAATGATGTACCCTGTACACGTGT
TCATGCTGTGTCTGGCTCTCATCTGCACAATCGTGCATAGAATTGCCTCAAGTCCTGGTGAGAGAGATGCCGTGG
TACTTTTCCATTTAGATTCAAATGGAGCTAAAATTAAGAGTTTTATGAGCTGTTAAGAATGAGGTAGTTTCTCCT
AGGACCCCCCAAAGACAGTGCAAGTAATGACCGTTTGGATCTCATTCGTCGATCTTTGATAGTATGTTCTGGAGT
CTACTCCCCAGGAGCCAGGACAGGCGTGAAGATGGAGTCCTTGTCGCAGCTGGAGCCTTGCCTAGCTGGTGATCA
CACAGCCTGGCCTGTACCTGCACCCCACTGGATGGTGGTACATGGTGGCAGGGACAGGACCACACCCAGTTAAGG
CCAGACCAGGCTGAGTGTGACCCCTGAGGTAAACACTCCACTAAGCTGTGTCTTGTTCATGCCCCCTGCTCAGTG
AAAGGTGAGTCCCGAGACCAGTTGGGTACCTCTCTATGCGAACCAGAGACATTTCTGGATCCAGGCCAGGTGAAG
ATTAGGGCCAGGAAGCCTGAGCCCCCGGGGCCTCAAGGTAGGGAGCCGAAGAGGCTGCCAGGACTCTGCTGGGTT
GAAATTTGCCGGGGAGGACTCTTGTCTCCCCCTCAGGAGTATTTTGTTGAGGCTTTCCTGGAGGTGAAGAAGCA
ATTCCCATTGCAGCAGGTTAGAGCGAGAATCAGACAGAGGGCAAAAACCAATTCGCTTCTCCCCACGTTCTAAAT
GCTGGGGCATGGCTGTCAGGAGGGCTTCCTGGGAGGTGTCTCTGGGGGTGGGGTGAGGTTGGGGCGATGGCCTTT
GGAGATTGCGTGTGGTGTTCAGGACTGTTCCTTGGTGTTTGAGGGAAACTTTAGTGGGATTGCAGTGGAATGTAA
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5121/6881
## FIGURE 4723C

GGTCAGGGCACGTGGGTGCTCTCTCGGGGTGGGGTGACTGGGAGACCTAGAGGGAAAGCCTGCTATGCAGGGGGA
GAGCACAGGACTGGCCCTGCTCTGCGGCCTCCTTTGTCCCATAACCTGAAGTTAAGTCACATCCCCTGTCGGGAC
CTCCGTGCACTCATCTGTCAAGTGGGGGCGCTTCCCTTCCAGCATCACCTGCAGCAGACGGGCTCTCGGGAGTCG
TGGGTTCCAGGCAGCTGTGTGGACCCAGGGACAGACATTCAAAGGGACGCCAGCCATCCTTAGTGACAGGGGCCC
CAACTTAGCATCCCTTCCCTTCCGTTAGGAAGGAGATGACCGGAAGCAACCCCTTCACAGACACGAGCACATCGG
CAAACCCTATGAAAGTGGAATTTTCTAACAAAATAAACTTGCTTGTTTGATCTGTTTTCTGTAACTTTTGCTAAA
TACTTTATACATTTTTCATGTTAAAGAGCCGTGTCTCCCGCCAGCACTCCTCACCCCGGTATGAATGTGTTTCCT
CCACATTGTATATCCTTCCACCCTCTGGCTGCCTAGATCAGTAAATAAAATTGATGTAATATAATTTATAAGTAA
CACTGTTGAAACCCTGATCCCAGTGGAGGCTGTAACCCACCTGCCCCCGCACCACCCCCCTGACCCCTGTTACCG
CATTTGTGTGTATTAATGCTGAAGAATTAAATGTTTAAAGAGTTTAAATTTTGAAGGCGTTTGCTATATACAGTT
GTCCTGCATTATTATAAAGAGTTTTCAGGAAGTT

5122/6881
# FIGURE 4724

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TCTTCCACAGGAGGCCTACACGCCGCCGCTTGTGCTGCTGCCATGTCTCTAGTGATCCCTGAAAAGTTCCAGCAT
ATTTTGCGAGTACTCAACACCAACATCGATGGGCGGTGGAAAATAGCCTTTGCCATCACTGCCATTAAGGGTGTG
GGCCGAAGATATGCTCATGTGGTATTGAGGAAAGCAGACATTGACCTCACCAAGAGGGCGGGAGAGCTCATTGAG
GATGAGGTGGAACGTGTGGTCACCATTATGCAGAATCCACGCCAGTACAAGATCCCCGACTGGTTTTTGAACAGA
CAGAAGGATGTAAAGGATGGAAAATATAACCAGGTCCTGGCCAACGGTCTGGACAACGAGCTCCGTGAAGACCTG
GAGCGACTGAAGAATATTCGGGCCCATAGAGGGCTGAGTCACTTCTGGGGCCTTCGTGTCCGAGGCCAGCACACC
AAGACCACTGGCCGCTGTGGCCGCACCGTAGGTGTGTCCAAGAAGAAATAAGTCTGTAGGCCTTGTTTGTTAATA
AATAGTTTATATACC
```

# FIGURE 4725

GCTGTCCTGAGCCTGAGTACTCTAGCTGCCTTGTCGCCATCGCATCTGGCTGCCATCCAGCGCCAGCACACAGTA
ATGAGTGGCCGAGCTTCCTCTGGGAGGGAGGAAACAGTTAAAATCTTGCAGCAGCTGCAATCATCTAGGCGTGGT
TCTCTTGTCTGACTTGGGCTGCACAGATCCTGGGCCAAGGGACAGAAGAAAGACAGCCTAGGAGCAGAGCCTCCC
AGATGGCTGAGTTGGATCTAATGGCTCCAGGGCCACTGCCCAGGGCCACTGCTCAGCCCCCAGCCCCTCTCAGCC
CAGACTCTGGGTCACCCAGCCCAGATTCTGGGTCAGCCAGCCCAGTGGAAGAAGAGGACGTGGGCTCCTCGGAGA
AGCTTGGCAGGGAGACGGAGGAACAGGACAGCGACTCTGCAGAGCAGGGGGATCCTGCTGGTGAGGGGAAAGAGG
TCCTGTGTGACTTCTGCCTTGATGACACCAGAAGAGTGAAGGCAGTGAAGTCCTGTCTAACCTGCATGGTGAATT
ACTGTGAAGAGCACTTGCAGCCGCATCAGGTGAACATCAAACTGCAAAGCCACCTGCTGACCGAGCCAGTGAAGG
ACCACAACTGGCGATACTGCCCTGCCCACCACAGCCCACTGTCTGCTTTCTGCTGCCCTGATCAGCAGTGCATCT
GCCAGGACTGTTGCCAGGAGCACAGTGGCCACACCATAGTCTCCCTGGATGCAGCCCGCAGGGACAAGGAGGCTG
AACTCCAGTGCACCCAGTTAGACTTGGAGCGGAAACTCAAGTTGAATGAAAATGCCATCTCCAGGCTCCAGGCTA
ACCAAAAGTCTGTTCTGGTGTCGGTGTCAGAGGTCAAAGCGGTGGCTGAAATGCAGTTTGGGGAACTCCTTGCTG
CTGTGAGGAAGGCCCAGGCCAATGTGATGCTCTTCTTAGAGGAGAAGGAGCAAGCTGCGCTGAGCCAGGCCAACG
GTATCAAGGCCCACCTGGAGTACAGGAGTGCCGAGATGGAGAAGAGCAAGCAGGAGCTGGAGAGGATGGCGGCCA
TCAGCAACACTGTCCAGTTCTTGGAGGAGTACTGCAAGTTTAAGAACACTGAAGACATCACCTTCCCTAGTGTTT
ACGTAGGGCTGAAGGATAAACTCTCGGGCATCCGCAAAGTTATCACGGAATCCACTGTACACTTAATCCAGTTGC
TGGAGAACTATAAGAAAAAGCTCCAGGAGTTTTCCAAGGAAGAGGAGTATGACATCAGAACTCAAGTGTCTGCCG
TTGTTCAGCGCAAATATTGGACTTCCAAACCTGAGCCCAGCACCAGGGAACAGTTCCTCCAATATGCGTATGACA
TCACGTTTGACCCGGACACAGCACACAAGTATCTCCGGCTGCAGGAGGAGAACCGCAAGGTCACCAACACCACGC
CCTGGGAGCATCCCTACCCGGACCTCCCCAGCAGGTTCCTGCACTGGCGGCAGGTGCTGTCCCAGCAGAGTCTGT
ACCTGCACAGGTACTATTTTGAGGTGGAGATCTTCGGGGCAGGCACCTATGTTGGCCTGACCTGCAAAGGCATCG
ACCGGAAAGGGGAGGAGCGCAACAGTTGCATTTCCGGAAACAACTTCTCCTGGAGCCTCCAATGGAACGGGAAGG .
AGTTCACGGCCTGGTACAGTGACATGGAGACCCCACTCAAAGCTGGCCCCTTTCCGGAGGCTCGGGGTCTATATCG
ACTTCCCGGGAGGGATCCTTTCCTTCTATGGCGTAGAGTATGATACCATGACTCTGGTTCACAAGTTTGCCTGCA
AATTTTCAGAACCAGTCTATGCTGCCTTCTGGCTTTCCAAGAAGGAAAACGCCATCCGGATTGTAGATCTGGGAG
AGGAACCCGAGAAGCCAGCACCGTCCTTGGGGGTGACTGCTCCC**TAG**ACTCCAGGAGCCATATCCCAGACCTTTG
CCAGCTACAGTGATGGGATTTGCATTTTAGGGTGATTTGTGGGCAGAAATAACTGCTGATGGTAGCTGGCTTTTG
AAATCCTATGGGGTCTCTGAATGAAAACATTCTCCAGCTGCTCTCTTTTGCTCCATATGGTGCTGTTCTCTATGT
GTTTGCAGTAATTCTTTTTTTTTTTTTGAGACGGAGTCTCGCACTGTTGCCCAGGCTGGAGAGCAGTGGCGCGA
TCTTGGCTCACTGCAAGCTCCGCCTCCCGAGTTCAAGCAATTCTCCTGCCTCAGCCTCCCGAGTAGCTGGGATTA
CAGGTGCCTGCCACCACACCCAGCTAATGTTTTGTATTTTTAGTAGAGATGGGGTTTCACCATGTTGGCCAGGCA
GATCTCAAACTCCTGACCTCGTGATGCACCCACCTCGGCCTCCCAAAGTGCTGGGATTACATGCGTGAGCCACTG
CGCCCTGCCTGTTTGTAGTAATTTTTAGGCACCAAATCTCCCTCATCTTCTAGTGCCATTCTCCTCTCTGTTCAG
GTAAATGTCACACTGTGCCCAGAATGGATGACCAGGAACCTTAAAGAGTGGCTGAAAAGATTGCAGAGTTATCAT
AATAAATTGCTAACTTGCGT

5124/6881
# FIGURE 4726

MAELDLMAPGPLPRATAQPPAPLSPDSGSPSPDSGSASPVEEEDVGSSEKLGRETEEQDSDSAEQGDPAGEGKEV
LCDFCLDDTRRVKAVKSCLTCMVNYCEEHLQPHQVNIKLQSHLLTEPVKDHNWRYCPAHHSPLSAFCCPDQQCIC
QDCCQEHSGHTIVSLDAARRDKEAELQCTQLDLERKLKLNENAISRLQANQKSVLVSVSEVKAVAEMQFGELLAA
VRKAQANVMLFLEEKEQAALSQANGIKAHLEYRSAEMEKSKQELERMAAISNTVQFLEEYCKFKNTEDITFPSVY
VGLKDKLSGIRKVITESTVHLIQLLENYKKKLQEFSKEEEYDIRTQVSAVVQRKYWTSKPEPSTREQFLQYAYDI
TFDPDTAHKYLRLQEENRKVTNTTPWEHPYPDLPSRFLHWRQVLSQQSLYLHRYYFEVEIFGAGTYVGLTCKGID
RKGEERNSCISGNNFSWSLQWNGKEFTAWYSDMETPLKAGPFRRLGVYIDFPGGILSFYGVEYDTMTLVHKFACK
FSEPVYAAFWLSKKENAIRIVDLGEEPEKPAPSLGVTAP

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## FIGURE 4727

GGCGGACCGAAGAACGCAGGAAGGGGGCCGGGGGGACCCGCCCCCGGCCGGCCGCAGCCATGAACTCCAACGTGG
AGAAACTGCCCCCGCACATCATCCGCCTGGTGTACAAGGAGGTGACGACACTGACCGCAGACCCACCCGATGGCA
TCAAGGTCTTTCCCAACGAGGAGGACCTCACCGACCTCCAGGTCACCATCGAGGGCCCTGAAGGGACCCCATATG
CTGGAGGTCTGTTCCGCATGAAACTCCTGCTGGGGAAGGACTTCCCTGCCTCCCCACCCAAGGGCTACTTCCTGA
CCAAGATCTTCCACCCGAACGTGGGCGCCAATGGCGAGATCTGCGTCAACGTGCTCAAGAGGGACTGGACGGCTG
AGCTGGGCATCCGACACGTACTGCTGACCATCAGGTGCCTGCTGATCCACCCTAACCCCGAGTCTGCACTCAACG
AGGAGGCGGGCCGCCTGCTCTTGGAGAACTCCGAGGAGTATGCGGCTCGGGCCCGTCTGCTCACAGAGATCCACG
GGGGCGCCGGCGGGCCCAGCGGCAGGGCCGAAGCCGGGCGGGCCCTGGCCAGTGGCACTGCAGCTTCCTCCACCG
ACCCTGGGGCCCCAGGGGGCCTGGGAGGGGCTGAGGGTCCCATGGCCAAGAAGCATGCTGGCGAGCGCGATAAGA
AGCTGGCGGCCAAGAAAAAGACGGACAAGAAGCGGGCGCTGCGGCGGCTGTAGTGGGCTCTCTTCCTCCTTCCAC
CGTGACCCCAACCTCTCCTGTCCCCTCCCTCCAACTCTGTCTCTAAGTTATTTAAATTATGGCTGGGGTCGGGGA
GGGTACAGGGGGCACTGGGACCTGGATTTGTTTTTCTAAATAAAGTTGGAAAAGCA

5126/6881
# FIGURE 4728

GGGCGGTTGGCTTTGTTGGGTGAGCTTGTTTGTGTCCCTGTGGGTGGACGTGGTTGGTGATTGGCAGGATCCTGG
TATCCGCTAACAGGTCAAA**ATG**CAGATCTTCGTGAAAACCCTTACCGGCAAGACCATCACCCTTGAGGTGGAGCC
CAGTGACACCATCGAAAATGTGAAGGCCAAGATCCAGGATAAGGAAGGCATTCCCCCCGACCAGCAGAGGCTCAT
CTTTGCAGGCAAGCAGCTGGAAGATGGCCGTACTCTTTCTGACTACAACATCCAGAAGGAGTCGACCCTGCACCT
GGTCCTGCGTCTGAGAGGTGGTATGCAGATCTTCGTGAAGACCCTGACCGGCAAGACCATCACCCTGGAAGTGGA
GCCCAGTGACACCATCGAAAATGTGAAGGCCAAGATCCAGGATAAAGAAGGCATCCCTCCCGACCAGCAGAGGCT
CATCTTTGCAGGCAAGCAGCTGGAAGATGGCCGCACTCTTTCTGACTACAACATCCAGAAGGAGTCGACCCTGCA
CCTGGTCCTGCGTCTGAGAGGTGGTATGCAGATCTTCGTGAAGACCCTGACCGGCAAGACCATCACTCTGGAAGT
GGAGCCCAGTGACACCATCGAAAATGTGAAGGCCAAGATCCAAGATAAAGAAGGCATCCCTCCCGACCAGCAGAG
GCTCATCTTTGCAGGCAAGCAGCTGGAAGATGGCCGCACTCTTTCTGACTACAACATCCAGAAGGAGTCGACCCT
GCACCTGGTCCTGCGCCTGAGGGGTGGCTGT**TAA**TTCTTCAGTCATGGCATTCGCAGTGCCCAGTGATGGCATTA
CTCTGCACTATAGCCATTTGCCCCAACTTAAGTTTAGAAATTACAAGTTTCAGTAATAGCTGAACCTGTTCAAAA
TGTTAATAAAGGTTTCGTTGCATGGTA

5127/6881
## FIGURE 4729

MQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLVLRLRG
GMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLVLRLR
GGMQIFVKTLTGKTITLEVEPSDTIENVKAKIQDKEGIPPDQQRLIFAGKQLEDGRTLSDYNIQKESTLHLVLRL
RGGC

5128/6881
# FIGURE 4730

AGGTAGGCTCTCTAGGAATCTGGGAGTAGTAGCTGGGGGGCAAGAGCAAATAAAGAGCTCGAGCTTCTGTGGTCT
CTGGGGAGATGTTCCCGGGAAGCCTGTCTAGAGGGCGGAGGGCAGCTGTTGAGATGGCGTGGCTCCCCGGCTCCT
GCGCCCGCGTGGCTTTCGCGGCGGGCGCTGCGGCCCGGTATTGGACAGCCTGGCAGGGCAGCGCGGGGCCGAATC
CGGCTGCCGTGGCTGAGGCTCATGGATCACTCTTTTGTGGTAGGGCCACATCTGCCAGAGCCTGGAGTCTGCGAA
GGCCGGGACCCGGTTCCCCGGCCCACAGTGGGGGTGTGCAAACCCGAGAGAACTGGATTGCGTACCCACTGCAGA
GTGCTGAAGACGGGGTAGCCACGAGGTTGCAAATTCGTGAAGAATCAGCATCATGTTTGGCAGCTGAGTATTGGA
GCCAGGAGCCTGCCATGAGGTTTTGAGAACAGAGTGCTGTTTTAGAGCTGGCAGCAGCATCTCAGCCCAAGAGAA
GGTTATATTCCCAGAGGATGTCAGTCCCAAGGACCAGTAGCTGCCATCAGTTTGGATTCTGAAAACTAACTGGCA
TCAACACTGGGTGTAGAAACATGCTTGCCTTATGTATCAGAGGACATGCTCAGCAGATCCAAGAGATATATTTGG
CAACTTTTTCTAGAAAAGGCACATTGGGTATCATTCATTACATTCTTGAGT

5129/6881
## FIGURE 4731

MFPGSLSRGRRAAVEMAWLPGSCARVAFAAGAAARYWTAWQGSAGPNPAAVAEAHGSLFCGRATSARAWSLRRPG
PGSPAHSGGVQTRENWIAYPLQSAEDGVATRLQIREESASCLAAEYWSQEPAMRF

# FIGURE 4732

TCCAGCCCTTCTCCTGTGTGCCTGCCTCCTGCCGCCGCCACC<u>ATG</u>ACCACCTCCATCCGCCAGTTCACCTCCTCC
AGCTCCATCAAGGGCTCCTCTGGCCTGGGGGGCGGCTCGTCCCGCACCTCCTGCCAGCTGTCTGGCGGCCTGGGT
GCCGGCTCCTGCAGGCCGGGATCTGCTGGTGGCCTGGGCAGCGCCCTCGGGGGTAGCAGCTACTCCAGCTGCTAC
AGCTTTGGCTCTGGCGGTGGCTATGGCAGCAGCAGCTTTGAGGGCGTTGATGGGCTGCTGGTCGGAGGTGAGAAG
GCCACCATGCAGAACCTCAATGACCGCCTGGCCTCCTACCTGGACAAGGTGCGTGCCCTGGAGGAGGCCGACACT
GAGCTGGAGGTAAAGATCCGTGACTGGTACCAGAGGCAGGCCCCGGGGCCCGCCCGTGACTACAGCCAGTACTAC
AGGATAATCGAGGAGCTGCAGAACAAGATCCTCACAGCCACCGTGGACAATGCCAACATCCTGCTACATATTGAC
AATGCCCATCTGGCTGCTGCTGACTTCCGCACCAAGTTTGAGACAGAGCAGGCCCTGTGCCTGAGTGTGGAGGCC
GACATCAATGGCCCGTGCAGGGTGCTGGATGAGCTGACCCTGGCCAGAGCCGACCTGGAGATGCACATTGAGAAC
CTCAAGGAGGAGCTGGCCTACCTGAAGAAGAACCACGAGGAGGAGATGAACGCCCCGCGAGGCCAGGTGGGCGGT
GAGATCAATGTGGAGATGGGCGCTGCCCCAGGTGTGGACCTGAGCCGCATCCTGAATGAGATGCGTGAGCAGTAT
GAGAAGATGGCAGAGAAGAACCGCAAGGATGCCGAGGATTGGTTCTTCAGCAAGACAGAGGAGCTGAACCGCGAG
GTGGCTACCAACAGTGAGCTGGTCCAGAGCGGCAAGAGCGAGATTTCGGAGCTCCGGTGCACCATGCAGGCCTTG
GAGATCGAGCTGCAGTCCCAGCTCAGCATGAAAGCATCCCTGGAGGGCAACCTGGCGGAGACAGAGAACCGCTAC
TGCATGCAGCTGTCCCAGATCCAGGGGCTGATCGGCAGTGTGGAGGAGCGGCTGGCCCAGCTTCTCTGCGAGATG
GAGCAGCAGAACCAGGAGTACAAGATCCTCCTGGACATGAAGATGCGGCTGGAGCTGGAGATCACCACCTACCAC
CGCCTGCTGGAGGGCGAGGATGCCCACCTGACTCAGTACAAGAAAGAACCGGTGACCACCTGTCAGGTGCCTACC
ATTGTGGAAGAGGTCCAGGATGGTAAGGTCATCTCCTCCCGCGAGCAGGTCCGCCAGACCACCCGC<u>TGA</u>GCACTC
AGCTTTCCTGGCCGGCCCCCCAGGAGGCAGGGAGGCAGCGGTCCCATCTGCCCCGCGGTCTCCGGCCTCTCCACC
CTCAGCCCCCTGCTTCAGTCCCTTCCCCATGCTTCCCTGCGTGATGACAATAAAGCTCGTTGACTCAGCT

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# FIGURE 4733

MTTSIRQFTSSSSIKGSSGLGGGSSRTSCQLSGGLGAGSCRPGSAGGLGSALGGSSYSSCYSFGSGGGYGSSSFE
GVDGLLVGGEKATMQNLNDRLASYLDKVRALEEADTELEVKIRDWYQRQAPGPARDYSQYYRIIEELQNKILTAT
VDNANILLHIDNAHLAAADFRTKFETEQALCLSVEADINGPCRVLDELTLARADLEMHIENLKEELAYLKKNHEE
EMNAPRGQVGGEINVEMGAAPGVDLSRILNEMREQYEKMAEKNRKDAEDWFFSKTEELNREVATNSELVQSGKSE
ISELRCTMQALEIELQSQLSMKASLEGNLAETENRYCMQLSQIQGLIGSVEERLAQLLCEMEQQNQEYKILLDMK
MRLELEITTYHRLLEGEDAHLTQYKKEPVTTCQVPTIVEEVQDGKVISSREQVRQTTR

5132/6881
# FIGURE 4734

CTTTCCGCTCGGCTGTTTTCCTGCTCAGGAGCCGCAGGGCCGTAGGCAGCCATGACGCCCAGCCGGAATGGCATG
GTCTTGAAGCCCCACTTCCACAAGGACTGGCAGCGGCGCGTGGCCACGTGGTTCAACCAGCCGGCCCGGAAGATC
CGCAGACGTAAGGCCCGGCAAGCCAAGGCGCGCCGCATCGCCCCGCGCCCCGCGTCGGGGCCCATCCGGCCCATC
GTGTGCTGCCCCACGGTTCGGTACCACACGAAGGTGCGCGCCGGCCGCGGCTTCAATCTGGAGGAGCTCAGGGTG
GCCGGCATTCACAAGAAGGTGGCCCGGACCATCGGCATTTCTGTGGATCCGAGGAGGCGGAACAAGTCCACGGAG
TCCCTGCAGGCGAACGTGCAGCGGCTGAAGGAGTACCGCTCCAAACTCATCCTCTTCCCCAGGAAGCCCTCGGCC
CCCAAGAAGGGAGACAGTTCTGCTGAAGAACTGAAACTGGCCACCCAGCTGACCGGACCGGTCATGCCCATCCGG
AATGTCTATAAGAAGGAGAAAGCTCGAGTGATCACTGAGGAAGAGAAGAATTTCAAAGCCTTCGCTAGTCTCCGT
ATGGCCCGTGCCAACGCCCGGCTCTTCGGCATACGGGCAAAAAGAGCCAAGGAAGCCGCAGAACAGGATGTTGAA
AAGAAAAAATAAAGCCCTCCTGGGGACTTGGAAT

5133/6881
## FIGURE 4735

GAATGGCATGGTCTTGAAGCCCCACTTCCACAAGGACTGGCAGCGGCGCGTGGCCACGTGGTTCAACCAGCCGGC
CCGGAAGATCCGCAGACGTAAGGCCCGGCAAGCCAAGGCGCGCCGCATCGCCCCGCGCCCCGCGTCGGGGCCCAT
CCGGCCCATCGTGTGCTGCCCCACGGTTCGGTACCACACGAAGGTGCGCGCCGGCCGCGGCTTCAATCTGGAGGA
GCTCAGGGTGGCCGGCATTCACAAGAAGGTGGCCCGGACCATCGGCATTTCTGTGGATCCGAGGAGGCGGAACCA
AACTCATCCTCTTCCCCAGGAAGCCCTCGGCCCCCAAGAAGGGAGACAGTTCTGCTGAAGAACTGAAACTGGCCA
CCCAGCTGACCGGACCGGTCATGCCCATCCGGAATGTCTATAAGAAGGAGAAAGCTCGAGTGATCACTGAGGAAG
AGAAGAATTTCAAAGCCTTCGCTAGTCTCCGTATGGCCCGTGCCAACGCCCGGCTCTTCGGCATAC

5134/6881
## FIGURE 4736

MAPSRNGMVLKPHFHKDWQRRVATWFNQPARKIRRRKGPASQGAPHRSAPRVGSHPAHRALPHGSVPHEGARRPR
LQPGGAPGWPAFTRRWPGPSAFLWIQTHPLPQEALGPQEGRQFC

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# FIGURE 4737

GTAGAGTGCGCGACGCTTTTGGCGACCCGACCTCTGGCTAACCTACCCCCGGAGCC**ATG**GCCTCTGCTGGGGTGG
CAGCCGGGCGACAGGCGGAGGATGTATTGCCGCCAACGTCCGACCAGCCGCTGCCTGACACCAAGCCGCTGCCGC
CTCCTCAGCCGCCGCCGGTCCCTGCGCCTCAACCGCAGCAGTCGCCGGCGCCCACGGCCTCAGTCACCTGCCCGCG
CGAGGGAGGAAGAGAACTACTCCTTTTTACCTTTGGTTCACAACATCATCAAATGCATGGACAAGGACAGCCCAG
AGGTCCACCAGGACCTGAACGCCCTCAAAAGCAAGTTCCAGGAGATGCGCAAGCTCATCAGCACCATGCCCGGCA
TCCACCTGAGCCCCGAACAGCAGCAGCAGCAGCTGCAGAGCCTCCGGGAGCAAGTCAGGACCAAGAATGAGCTTC
TGCAAAAGTACAAGAGCCTCTGCATGTTCGAAATCCCCAAGGAG**TAG**AGTGAGGCTGACTTCCTTAGAAAGAGGG
GGAAGCCAATGGCCTGTCTCCCCACTACCATCCCCAAACGCTCCTTGGGGCGTGGTTCCTGTGGACCCCAGCTCA
GCTCGTCAAGCTGCAGGGGCGGGGCTCCTGTGCTGCTGCGCGCGCTTCGCCTGTGCGGGAGCCAGCGCAGAGCTT
GGCTGCGCCGGGGGTTCCTCGTGTAGATCCATATGTCTAGATGCATAATAACTGGAGTGCCTGCTGGTGGAAGTC
AGAATGCTCCTGGAGGCTGCAGAGGGGGTGGAGGACTCTCCCCTGCCTCTGGGGAGGGGGCCATCTGCTGCGCCC
GGCCCCACTGACAGATCTGAAGAGCACAGTAGGAAGGGAGGCGGCTCCTCTTTGCTTCCTTCCCTCTCTCTCCTC
CCACCCCCATAGGATCAGTGTGTACCAGGTACACATTGTTCCTGTTAACAGCAGCTTCTTGAAACATTTGCATAG
AATTCACTGGACGAATTAAGCCTGCACTCATATGGCATAGAATTGTGAGAGAATGTTTTGAAAGGCCAGAGGGTG
GCCTTTTTCCCCAAACAGTTTGGTTCCTTTTATGTTTGAGCCAGTGAAGGGAACTACGCTTTGGGGGCTTCAGCC
TAGAGCCCTGCCAGGCAGCCCCTGGCTCCAGGTTCCCTGCCTCCTAGCGCTCTCCTCGCCTTCAGCTCTTGCTCC
CTTCCTCGTTCATCACCCTCAGTCAGTGCCCAAGAGTGGCCAAACCGCTTCACATCTGCAGTGCTTCCCCAGGGT
TGACAAGGGGCCGTCCTTTCCACACAGGCCAGAAGAGGTCTTCAGGCGAACCGACCTTCCCCCTTCTGGCATTTC
AGATTCCCCTTGCTCTGGTTAAAAGGTCTTTCCCTCGTGGCCTTTGCACTTGCGGCAGCAACGTGTACTACACTG
CAGAAGGGTTCAGTATGCACCTTGTGTTGAGAGAGAGGCAACCCTGGGGGGCCAGTTCAGGTGGTCCCCAACCATA
GGCTAGGTCTGAAAGTTACACAGCCAAGTTTGAGCTCTTAAAAGTTGATGAACAGCCTCATTTCCCCAGCTTCCC
TGATTTCTTCCAGATGGGACGTTTTATTTGTGTGCTCTCCCTTGACTGTCAGATTGAAGTAAGAGCAGTTCTCTC
CGTTGCCTCTCGAGGAGGAGGTGCGAAGTCCTGGAGTATTGTTTGGGTCTCGGAATGGGCGCATAACCTGCGCTG
ACCAGTTTAGGGGCTTAGCAGATGCCTGCCAGCTGACCTCGTTGGCAGGAGGGTTGGGTGGAGATGTTTTTAGCA
GAGCTTCCATTAGTGTAGACCTGTAGCCACCTGTCAGAAGGTGGGTGGCATATTGGGGACCTGGGAATGTGTGAA
GGAGGAGATCAAATTTCAGTGGCTTTGGACAGAAAAGAAGGCTCTGGATTTAAGCGGGTGGTCACCTGTGAGACC
AGGTCTACCTTGGGACTGTTATTTAACTGAATCAGTTATTTCCTTGAAATTTCACAGTAGTGGGTGGGCCTGTTT
TAAGGCTCTGACAGATACCACGAAACATGAAGCACGTGGAACTACAAGACCCCCGGGGTCTTTCTGAGTGCAAGG
CTGAAATGGACAAGGGCTCCTCACGGGGGTGGAGGGAGCCGGAGCCTGCCTTGTGTTCCTTTTTTGACTTGTGAC
ATTTTTCAAACACATAATTAAAAGGACTTATGCTCTGCTGTCTCAGG

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**FIGURE 4738**

MASAGVAAGRQAEDVLPPTSDQPLPDTKPLPPPQPPPVPAPQPQQSPAPRPQSPARAREEENYSFLPLVHNIIKC
MDKDSPEVHQDLNALKSKFQEMRKLISTMPGIHLSPEQQQQQLQSLREQVRTKNELLQKYKSLCMFEIPKE

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## FIGURE 4739

GGGGCGACCCGACCTCTGGCTAACCTACCCCCGGAGCC<u>ATG</u>GCCTCTGCTGGGGTGGCAGCCGGGCGACAGGCGG
AGGATGTATTGCCGCCAACGTCCGACCAGCCGCTGCCTGACACCAAGCCGCTGCCGCCTCCTCAGCCGCCGCCGG
TCCCTGCGCCTCAACCGCAGCAGTCGCCGGCGCCACGGCCTCAGTCACCTGCCCGCGCGAGGGAGGAAGAGAACT
ACTCCTTTTTACCTTTGGTTCACAACATCATCAAATGG<u>TAA</u>GAACCTAGGAGAGGACCAGGCCCCATACTCCCTC
CAGCTTCTCCTCTCAGCCGTTTCAGAGCTGCAAGAGGCCTTGGCGCTCTGGGGCACGCCCCCGTTTCACAGATGG
GGAAACTCAGACCCAGAGCGGGAAGAGGCCTTTCCCAAGACCACAGAGACATTCCATGAGTTAAGCAAACGATTT
GAGCCTCGAGAGGTGCGATATCCTTAAGAATGAAGCCAGCTTAGAGACTAAATGCAGACTCTTGTCCAGCGGCTC
AAATGTTCATCCCAGCGATCTTGAGCAAATTAAATCTCTTTAAGCCGCAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAA

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## FIGURE 4740

MASAGVAAGRQAEDVLPPTSDQPLPDTKPLPPPQPPPVPAPQPQQSPAPRPQSPARAREEENYSFLPLVHNIIKW

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# FIGURE 4741

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GCCCTGCCAGCCCCAGACAAGGGCACAGAAACAGCCAGGCCACACCAACTACAGCAGCTATTCCAAGCGGAAGCG
CCTCACTCGGGGCCGGGCCAAGAACACCACCTCTTCACCCTGTAAGGGGCGTGCCAAGCGACGACGACAGCAGCA
GGTGCTGCCCCTGGATCCCGCAGAGCCTGAAATCCGCCTCAAGTACATTTCCTCTTGCAAGCGGCTGAGGTCAGA
CAGCCGGACCCCCGCCTTCTCACCCTTCGTGCGGGTGGAGAAGCGAGACGCGTTCACCACCATATGCACTGTTGT
CAACTCCCCTGGAGATGCGCCCAAGCCCCACAGGAAGCCTTCCTCCTCTGCCTCCTCTTCCTCATCCTCGTCCTC
GTTCTCCTTGGATGCAGCCGGGGCCTCCCTGGCCACACTCCCTGGAGGCTCCATCCTGCAGCCGCGGCCCTCCTT
GCCCCTCTCCTCCACGATGCACTTGGGGCCTGTGGTTTCCAAGGCCCTGAGTACCTCTTGCCTTGTTTGCTGCCT
CTGCCAAAACCCGGCCAACTTCAAGGACCTTGGGGACCTCTGTGGGCCCTACTACCCTGAACACTGCCTCCCCAA
AAAGAAGCCAAAACTCAAGGAGAAGGTGCGGCCAGAAGGCACCTGTGAGGAGGCCTCGCTGCCGCTTGAGAGAAC
ACTCAAAGGTCCCGAGTGTGCAGCTGCCGCCACTGCCGGGAAGCCCCCCAGGCCTGACGGCCCAGCTGACCCGGC
CAAGCAGGGCCCACTGCGCACCAGTGCCCGGGGGCCTGTCCCGGAGGCTGCAGAGCTGCTACTGCTGTGATGGCCG
GGAGGATGGGGGGCGAGGAGGCAGCCCCAGCCGACAAGGGTCGCAAACATGAGTGCAGCAAGGAGGCTCCGGCAGA
GCCCGGCGGGGAGGCCCAGGAGCACTGGGTGCATGAGGCCTGTGCCGTGTGGACCGGCGGCGTCTACCTGGTGGC
CGGGAAGCTCTTTGGGCTGCAGGAGGCCATGAAGGTGGCCGTGGACATGATGTGTTCCAGCTGCCAAGAAGCCGG
GGCCACCATTGGGTGCTGCCACAAAGGATGCCTCCACACCTACCACTACCCGTGTGCCAGCGATGCAGGTTGCAT
ATTCATCGAAGAGAACTTTTCTTTGAAATGTCCCAAACATAAGAGGCTGCCGTAGTAATCCACCCCAACGGCCGG
AGGAGCCGCCGGAGCCCGCCTGCCCGCCCGCCGCCGAAGGAGAGGAGCCGCCTGCGCAGCCCCCGGGCCTTTGAG
CTGCTCCCAGCGCTGGTCCAGAGCCGATCCTTGATCCGGGTCCCGGATCGTGGATCCGGCCGCCTAGGGCTCAGA
CTTGCGGCCCCGGGTTGGGAGGAAAAACCCGTTCCGGAGCCGCCTGCTCCCGGAACCGGACGGCACAGGGCGTTCT
TGCCCACCCCAGGGGCCAGGCTTGCGGAGGGGGGAGCCCGCGGAGCGGCCAGACTCCCCGGGGCGCTCAGCCTCCG
GCGAGGGTGGGAGACGGCTTTGTCCTGGGGCACACTTTCCCTCTGGAATCTCAAGACGACGTGGCACACATTCCAC
GTGGGTGCTGCCGCCACCCCAGTCGGTCGTGGCGTGCAGCTGGGAGCCCTGGGCTTGGGGGTGGGGGTCGAAACA
GTACTGGAAGAGGCGGAGGGCGGCTCCTAGCTCCGTGGACTAGGCGGGGGAGAAAGGAAGCCTTTCTGAGAGCGG
GCTAGGCCGGCACTGGAGAGGCCGGAGCCTTTGGAACAAACCGTGCGGAACGCGTCCAGGGGCCTTCCCGCCCAG
CCTTTGCCAGATCTCTCGTGCGGTTCGGGCAAAGCCGGGGTAGACCTGGGCTATGCTCAGTTAGGGGTTGCGGGA
TCCCCGAGTGTGGGCGGGACTGGGACACCCTTTGGCCTCTGTTTGTCCCCTTTCCAGTCCTCCACCCCACCCCTG
GAGCCCAGCCTGGGAGCGCAAAACCCAAGAAGCGGCCAGAACGCACCTCCGGCTCCGGCGGACGCGCGACCGTTG
TGCACCACCAGGGACCGCCGCGCCTACTCTGCACGGGAGCAGGGACAGCGCTAGATTTCGTGTACAAAACCTGTG
TACCCCTCTATATATATGTTACATAGAATGTATATATGTTGGGAACATGCTCGCTTCTCCCGTGTGTCGCCGCCG
TGCGTCGTGCGCCCGCAACAGAGCCCCAACCGGGCCTTTGCCGGGTAAGGGGCTACCGCGACGCCACTTGTCCAC
GCAGCCACCACCGGCCCGGGCCAGTCCCTGCCAGTCCGTCCGCCTGTCCGTCCGTGTCCTCAGCTCTGTCCACGC
TTCGATAGGCCTGACGCAGCCCCCAGCCCAGGGCCGCCCTAGCAACTTCCTGTACATATGACTGTAAAATGGTAA
ACGTGTGTATTATATCTGGCCTCGTTATATAGTGTATATATATGTATACATATACATATATATAATATATATGAA
GACTGTAAATGTTAAGACGACTAGTGTTCTTATTAGTATATTGCTTCACACTGAAGATTGTGTGTATCGAGCTGT
TTCTAAAAGATGTTTATTTTCCTTAAGAGTAAAAAACAGTCATTGCATTCAGAAAAAAAAAAAAAAAAAAAGTCAA
TAAAGATACAACGATTGTTTTGGAAAA
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# FIGURE 4742A

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TAACGAGGAACTTTTCGCCGGCGCCGGGCCGCCTCTGAGGCCAGGGCAGGACACGAACGCGCGGAGCGGCGGCGG
CGACTGAGAGCCGGGGCCGCGGCGGCGCTCCCTAGGAAGGGCCGTACGAGGCGGCGGGCCCGGCGGGCCTCCCGG
AGGAGGCGGCTGCGCCATGGACGAGCCACCCTTCAGCGAGGCGGCTTTGGAGCAGGCGCTGGGCGAGCCGTGCGA
TCTGGACGCGGCGCTGCTGACCGACATCGAAGACATGCTTCAGCTTATCAACAACCAAGACAGTGACTTCCCTGG
CCTATTTGACCCACCCTATGCTGGGAGTGGGGCAGGGGGCACAGACCCTGCCAGCCCCGATACCAGCTCCCCAGG
CAGCTTGTCTCCACCTCCTGCCACATTGAGCTCCTCTCTTGAAGCCTTCCTGAGCGGGCCGCAGGCAGCGCCCTC
ACCCCTGTCCCCTCCCCAGCCTGCACCCACTCCATTGAAGATGTACCCGTCCATGCCCGCTTTCTCCCCTGGGCC
TGGTATCAAGGAAGAGTCAGTGCCACTGAGCATCCTGCAGACCCCCACCCCACAGCCCCTGCCAGGGGCCCTCCT
GCCACAGAGCTTCCCAGCCCCAGCCCCACCGCAGTTCAGCTCCACCCCTGTGTTAGGCTACCCCAGCCCTCCGGG
AGGCTTCTCTACAGGAAGCCCTCCCGGGAACACCCAGCAGCCGCTGCCTGGCCTGCCACTGGCTTCCCCGCCAGG
GGTCCCGCCCGTCTCCTTGCACACCCAGGTCCAGAGTGTGGTCCCCCAGCAGCTACTGACAGTCACAGCTGCCCC
CACGGCAGCCCCTGTAACGACCACTGTGACCTCGCAGATCCAGCAGGTCCCGGTCCTGCTGCAGCCCCACTTCAT
CAAGGCAGACTCGCTGCTTCTGACAGCCATGAAGACAGACGGAGCCACTGTGAAGGCGGCAGGTCTCAGTCCCCT
GGTCTCTGGCACCACTGTGCAGACAGGGCCTTTGCCGACCCTGGTGAGTGGCGGAACCATCTTGGCAACAGTCCC
ACTGGTCGTAGATGCGGAGAAGCTGCCTATCAACCGGCTCGCAGCTGGCAGCAAGGCCCCGGCCTCTGCCCAGAG
CCGTGGAGAGAAGCGCACAGCCCACAACGCCATTGAGAAGCGCTACCGCTCCTCCATCAATGACAAAATCATTGA
GCTCAAGGATCTGGTGGTGGGCACTGAGGCAAAGCTGAATAAATCTGCTGTCTTGCGCAAGGCCATCGACTACAT
TCGCTTTCTGCAACACAGCAACCAGAAACTCAAGCAGGAGAACCTAAGTCTGCGCACTGCTGTCCACAAAAGCAA
ATCTCTGAAGGATCTGGTGTCGGCCTGTGGCAGTGGAGGGAACACAGACGTGCTCATGGAGGGCGTGAAGACTGA
GGTGGAGGACACACTGACCCCCACCCCCCTCGGATGCTGGCTCACCTTTCCAGAGCAGCCCCTTGTCCCTTGGCAG
CAGGGGCAGTGGCAGCGGTGGCAGTGGCAGTGACTCGGAGCCTGACAGCCCAGTCTTTGAGGACAGCAAGGCAAA
GCCAGAGCAGCGGCCGTCTCTGCACAGCCGGGGCATGCTGGACCGCTCCCGCCTGGCCCTGTGCACGCTCGTCTT
CCTCTGCCTGTCCTGCAACCCCTTGGCCTCCTTGCTGGGGGCCCGGGGGCTTCCCAGCCCCTCAGATACCACCAG
CGTCTACCATAGCCCTGGGCGCAACGTGCTGGGCACCGAGAGCAGAGATGGCCCTGGCTGGGCCCAGTGGCTGCT
GCCCCCAGTGGTCTGGCTGCTCAATGGGCTGTTGGTGCTCGTCTCCTTGGTGCTTCTCTTTGTCTACGGTGAGCC
AGTCACACGGCCCCACTCAGGCCCCGCCGTGTACTTCTGGAGGCATCGCAAGCAGGCTGACCTGGACCTGGCCCG
GGGAGACTTTGCCCAGGCTGCCCAGCAGCTGTGGCTGGCCCTGCGGGCACTGGGCCGGCCCCTGCCCACCTCCCA
CCTGGACCTGGCTTGTAGCCTCCTCTGGAACCTCATCCGTCACCTGCTGCAGCGTCTCTGGGTGGGCCGCTGGCT
GGCAGGCCGGGCAGGGGGCCTGCAGCAGGACTGTGCTCTGCGAGTGGATGCTAGCGCCAGCGCCCGAGACGCAGC
CCTGGTCTACCATAAGCTGCACCAGCTGCACACCATGGGGAAGCACACAGGCGGGCACCTCACTGCCACCAACCT
GGCGCTGAGTGCCCTGAACCTGGCAGAGTGTGCAGGGGATGCCGTGTCTGTGGCGACGCTGGCCGAGATCTATGT
GGCGGCTGCATTGAGAGTGAAGACCAGTCTCCCACGGGCCTTGCATTTTCTGACACGCTTCTTCCTGAGCAGTGC
CCGCCAGGCCTGCCTGGCACAGAGTGGCTCAGTGCCTCCTGCCATGCAGTGGCTCTGCCACCCCGTGGGCCACCG
TTTCTTCGTGGATGGGGACTGGTCCGTGCTCAGTACCCCATGGGAGAGCCTGTACAGCTTGGCCGGGAACCCAGT
GGACCCCCTGGCCCAGGTGACTCAGCTATTCCGGGAACATCTCTTAGAGCGAGCACTGAACTGTGTGACCCAGCC
CAACCCCAGCCCTGGGTCAGCTGATGGGGACAAGGAATTCTCGGATGCCCTCGGGTACCTGCAGCTGCTGAACAG
CTGTTCTGATGCTGCGGGGGCTCCTGCCTACAGCTTCTCCATCAGTTCCAGCATGGCCACCACCACCGGCGTAGA
CCCGGTGGCCAAGTGGTGGGCCTCTCTGACAGCTGTGGTGATCCACTGGCTGCGGCGGGATGAGGAGGCGGCTGA
GCGGCTGTGCCCGCTGGTGGAGCACCTGCCCCGGGTGCTGCAGGAGTCTGAGAGACCCCTGCCCAGGGCAGCTCT
GCACTCCTTCAAGGCTGCCCGGGCCCTGCTGGGCTGTGCCAAGGCAGAGTCTGGTCCAGCCAGCCTGACCATCTG
TGAGAAGGCCAGTGGGTACCTGCAGGACAGCCTGGCTACCACACCAGCCAGCAGCTCCATTGACAAGGCCGTGCA
GCTGTTCCTGTGTGACCTGCTTCTTGTGGTGCGCACCAGCCTGTGGCGGCAGCAGCAGCCCCCGGCCCCGGCCCC
AGCAGCCCAGGGCGCCAGCAGCAGGCCCCAGGCTTCCGCCCTTGAGCTGCGTGGCTTCCAACGGGACCTGAGCAG
CCTGAGGCGGCTGGCACAGAGCTTCCGGCCCGCCATGCGGAGGGTGTTCCTACATGAGGCCACGGCCCGGCTGAT
GGCGGGGGCCAGCCCCACACGGACACACCAGCTCCTCGACCGCAGTCTGAGGCGGCGGGCAGGCCCCGGTGGCAA
AGGAGGCGCGGTGGCGGAGCTGGAGCCGCGGCCCACGCGGCGGGAGCACGCGGAGGCCTTGCTGCTGGCCTCCTG
CTACCTGCCCCCCGGCTTCCTGTCGGCGCCCGGGCAGCGCGTGGGCATGCTGGCTGAGGCGGCGCGCACACTCGA
GAAGCTTGGCGATCGCCGGCTGCTGCACGACTGTCAGCAGATGCTCATGCGCCTGGGCGGTGGGACCACTGTCAC
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# FIGURE 4742B

TTCCAGC**TAG**ACCCCGTGTCCCCGGCCTCAGCACCCCTGTCTCTAGCCACTTTGGTCCCGTGCAGCTTCTGTCCT
GCGTCGAAGCTTTGAAGGCCGAAGGCAGTGCAAGAGACTCTGGCCTCCACAGTTCGACCTGCGGCTGCTGTGTGC
CTTCGCGGTGGAAGGCCCGAGGGGCGCGATCTTGACCCTAAGACCGGCGGCCATGATGGTGCTGACCTCTGGTGG
CCGATCGGGGCACTGCAGGGGCCGAGCCATTTTGGGGGGCCCCCCTCCTTGCTCTGCAGGCACCTTAGTGGCTTT
TTTCCTCCTGTGTACAGGGAAGAGAGGGGTACATTTCCCTGTGCTGACGGAAGCCAACTTGGCTTTCCCGGACTG
CAAGCAGGGCTCTGCCCCAGAGGCCTCTCTCTCCGTCGTGGGAGAGAGACGTGTACATAGTGTAGGTCAGCGTGC
TTAGCCTCCTGACCTGAGGCTCCTGTGCTACTTTGCCTTTTGCAAACTTTATTTTCATAGATTGAGAAGTTTTGT
ACAGAGAATTAAAAATGAAATTATTTATA. .           .

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# FIGURE 4743

MDEPPFSEAALEQALGEPCDLDAALLTDIEDMLQLINNQDSDFPGLFDPPYAGSGAGGTDPASPDTSSPGSLSPP
PATLSSSLEAFLSGPQAAPSPLSPPQPAPTPLKMYPSMPAFSPGPGIKEESVPLSILQTPTPQPLPGALLPQSFP
APAPPQFSSTPVLGYPSPPGGFSTGSPPGNTQQPLPGLPLASPPGVPPVSLHTQVQSVVPQQLLTVTAAPTAAPV
TTTVTSQIQQVPVLLQPHFIKADSLLLTAMKTDGATVKAAGLSPLVSGTTVQTGPLPTLVSGGTILATVPLVVDA
EKLPINRLAAGSKAPASAQSRGEKRTAHNAIEKRYRSSINDKIIELKDLVVGTEAKLNKSAVLRKAIDYIRFLQH
SNQKLKQENLSLRTAVHKSKSLKDLVSACGSGGNTDVLMEGVKTEVEDTLTPPPSDAGSPFQSSPLSLGSRGSGS
GGSGSDSEPDSPVFEDSKAKPEQRPSLHSRGMLDRSRLALCTLVFLCLSCNPLASLLGARGLPSPSDTTSVYHSP
GRNVLGTESRDGPGWAQWLLPPVVWLLNGLLVLVSLVLLFVYGEPVTRPHSGPAVYFWRHRKQADLDLARGDFAQ
AAQQLWLALRALGRPLPTSHLDLACSLLWNLIRHLLQRLWVGRWLAGRAGGLQQDCALRVDASASARDAALVYHK
LHQLHTMGKHTGGHLTATNLALSALNLAECAGDAVSVATLAEIYVAAALRVKTSLPRALHFLTRFFLSSARQACL
AQSGSVPPAMQWLCHPVGHRFFVDGDWSVLSTPWESLYSLAGNPVDPLAQVTQLFREHLLERALNCVTQPNPSPG
SADGDKEFSDALGYLQLLNSCSDAAGAPAYSFSISSSMATTTGVDPVAKWWASLTAVVIHWLRRDEEAAERLCPL
VEHLPRVLQESERPLPRAALHSFKAARALLGCAKAESGPASLTICEKASGYLQDSLATTPASSSIDKAVQLFLCD
LLLVVRTSLWRQQQPPAPAPAAQGASSRPQASALELRGFQRDLSSLRRLAQSFRPAMRRVFLHEATARLMAGASP
TRTHQLLDRSLRRRAGPGGKGGAVAELEPRPTRREHAEALLLASCYLPPGFLSAPGQRVGMLAEAARTLEKLGDR
RLLHDCQQMLMRLGGGTTVTSS

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# FIGURE 4744

AGGTCTGTTCCGCATGAAACTCCTGCTGGGGAAGGACTTCCCTGCCTCCCCACCCAAGGGCTACTTCCTGACCAA
GATCTTCCACCCGAACTTGGGCGCCAATGGCGAGATGTGCGTCAACGTGCTCAAGAGGGACTGGACGGCTGAGCT
GGGCATCCGACACGTACTGCTGACCATCAAGTGCCTGCTGATCCACCCTAACCCCGAGTCTGCACTCAACGAGGA
GGCGGGCCGCCTGCTCTTGGAGAACTACGAGGAGTATGCGGCTCGGGCCCGTCTGCTCACAGAGATCCACGGGGG
CGCCGGCGGGCCCAGCGGCAGGGCCAAAGCCGGGCGGGCCCTGGCCAGTGGCACTGCAGCTTCCTCCACCGACTC
TGGGGCCCCAGGGGGCTTGGGAGGGGCTGAGGGTCCCATGGCCAAGAAGCATGCTGGCGAGCGCGATAAGAAGCT
GGCGGCCAAGAAAAAGACGGACAAGAAGCGGGCGCTACGGCGGCTGTAGTGGGCTCTCTTCCTCCTTCCACCGTG
ACCCCAACCTCTCCTGTCCCCTCCCTCCAACTCTGTCTCTAAGTTATTTAAATTATGGCTGGGGTCGGGGAGGGT
ACAGGGGGCACTGAGACCTGGATTTGTTTTTTTAAATAAAGTTGGAAAAGCA

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# FIGURE 4745

TTTCTCTGGAGGAGCTCCGCGCGTGGCGAGTCTGTGTCCTCCCTGTCCCCCAGAGCAGÂGAACCCTCTCTGTGTC
TGGACCGGGGAGGAGCAGACGCTGGACAGGGTGTGTGTGTTCAGCAGTGGATTGTCAGACTTGGGGTCCCGGCTG
CTCCCTTTTGGGTCTCTCCCCGGGCCCGCTGATCTGACTGTAATTCCTTCTGCTGGAGCTAGGGTTCGGCCACCT
TGACGCGCCCCCTCTGCCCCCGGAGCGTGTCTTTGGGTTTTGTGTGTGTGGGAGTGGGGTGTATGTGTGTTTCTT
ATCCGAGACACCTCCGGGTCGTTTGCTTGGAAACCGGCTGAGGGCCCGCACAGCCTGGAGCATTTGGTTGGAAAG
TGAGGCAGGTAGCGCCCAAGGCTCCTGTACCAGGGCCAGGTTAGGCACCAACGCGTCCCTTATGTCTCTGCAGCC
TGCAGTGTGGTGGAACCGTTTTATAGACTGACAGTGTGAACGTGGGAGGGGATGGATATCAGAGACCCGTTTATC
CACATTTTCAGAGAGTGGTATTGCTCCGATGTGAGTGTAGGCAGGTTACTCTCTGTGTCTCGTGTTCTTTACCTG
TAATTTGAGGTTTGTTGTACCTACTTTTAAGTGGTGGTTGTGAGGATTAAATGGAATTTTGACATGCAACAGTTG
ACACAGGGCCAGACACCAAGTAAGGGATCAATCAGTTGTTGCTTTTATTAATAGTAGGCATCCATCTGCCCACTT
GTACGTAAGAAGGAAACACCCAAGAATGAAAAGTAGCTTGTTGTAGGTCACCCAGCCAACTAGCACATAGGGGAA
ATTAGAATCCAGGCACTCCCAGCAGGGCACTTTCCACCACCCTGCACTTTTGTATTCATCAGGCACAATATCCTT
ACTGTTGTCTGTAACTGTCTATGTTCCCAGTGTCTGACTCTGCAGGGCCCTGGTGGTATAAAGGTACTGAGACTT
GCCTGTGTTTAGGGCTTCCTGAAGATTAAATGGCTGCTGAAGTTCTTGAGTTTAGCTTTAGCTCAAAAGATACTG
CGTCAGACTCTGCGTTCTGAGTAGAGTCTCAGACAATGAAAAAGAAATACAATGAAAAAGGGGAAAACTTCAAT
CCAGAATCTCTTGCCACAGTTTTTGGCAGAATGCTGGCAATTCCCAGGAAGATATGTGGAGAACGGAAAGGTTGC
TACACCCAAATAGTGGCGCAAAGGCTATGATTATGGAGGATTGGACCTGCAAACTCCAGAACAGAGTTCTGCCCT
CTGAGGACCCTGCCCTTTCCCAAAAGGGGTATCTTAAGAAGGAAAATATGGCTGCTCTTTGCCGGACAGCAGAGT
CCCAGAGGCTGAACTCCAGTGCACCCAGTTAGACTTGGAGCGGAAACTCAAGTTGAATGAAAATGCCATCTCCAG
GCTCCAGGCTAACCAAAAGTCTGTTCTGGTGTCGGTGTCAGAGGTCAAAGCAGTGGCTGAAATGCAGTTTGGGGA
ACTCCTTGCTGCTGTGAGGAAGGCCCAGGCCAATGTGATGCTCTTCTTAGAGGAGAAGGAGCAAGCTGCGCTGAG
CCAGGCCAACGGTATCAAGGCCCACCTGGAGTACAGGAGTGCCGAGATGGAGAAGAGTAAGCAGGAGCTGGAGAC
GATGGCGGCCATCAGCAACACTGTCCAGTTCTTGGAGGAGTACTGCAAGTTTAAGAACACTGAAGACATCACCTT
CCCTAGTGTTTACATAGGGCTGAAGGATAAACTCTCGGGCATCCGCAAAGTTATCACGGAATCCACTGTACACTT
AATCCAGTTGCTGGAGAACTATAAGAAAAAGCTCCAGGAGTTTTCCAAGGAAGAGGAGTATGACATCAGAACTCA
AGTGTCTGCCATTGTTCAGCGCAAATATTGGACTTCCAAACCTGAGCCCAGCACCAGGGAACAGTTCCTCCAATA
TGTGCATGACATCACGTTCGACCCGGACACAGCACACAAGTATCTCCGGCTGCAGGAGGAGAACCGCAAGGTCAC
CAACACCACGCCCTGGGAGCATCCCTACCCGGACCTCCCCAGCAGGTTCCTGCACTGGCGGCAGGTGCTGTCCCA
GCAGAGTCTGTACCTGCACAGGTACTATTTTGAGGTGGAGATCTTCGGGGCAGGCACCTATGTTGGCCTGACCTG
CAAAGGCATCGACCAGAAAGGGGAGGAGCGCAGCAGTTGCATTTCCGGAAACAACTTCTCCTGGAGCCTCCAATG
GAACGGGAAGGAGTTCACGGCCTGGTACAGTGACATGGAGACCCCACTCAAAGCTGGCCCTTTCTGGAGGCTCGG
GGTCTATATTGACTTCCCAGGAGGGATCCTTTCCTTCTATGGCGTAGAGTATGATTCCATGACTCTGGTTCACAA
GTTTGCCTGCAAGTTTTCAGAACCAGTCTATGCTGCCTTCTGGCTTTCCAAGAAGGAAAACGCCATCCGGATTGT
AGATCTGGGAGAGGAACCCGAGAAGCCAGCACCGTCCTTGGTGGGGACTGCTCCCTAGACTCCAGGAGCCATATC
CCAGACCTTTGCCAGCTACAGTGATGGGATTTGCATTTTAGGGTGATTGGGGGCAAAAATAACTGCTGATGGTA
GCTGGCTTTTGAAATCCTATGGGGTCTCTGAATGAAAACATTCTCCAGCTGCTCTCTTTTGCTCCATATGGTGCT
GTTCTCTATGTGTTTGCAGTAATTCTTTTTTTTTTTTTTTTTGAGACGGAGTCTCGCACTGTTGCCCAGGCTGGA
GTGCAGTGGCGTGATCTTGGCTCACTGCAAGCTCCGCCTCCCGAGTTCAAGCAATTCTCCTGCCTCAGCCTCCCG
AGTAGCTGGGATTACAGGTGCCTGCCACCACACCCAGCTAACGTTTTGTATTTTTAGTAGAGATGGGGTTTCACC
ATGTTGGCCAGGCAGATCTCAAACTTCTGACCTCGTGATGCACTCACCTCGGCCTCCCAAAGTGCTGGGATTACA
GGCGTGAGCCACTGCGCCCTGCCTGTTTGTAGTAATTTTTAGGCACCAAATCTCCCTCATCTTCTAGTGCCATTC
TCCTCTCTGTTCAGGTAAATGTCACACTGTGCCCAGAATGGATGACCAGGAACCTTCAAGAGTGGCTGAAAAGAT
TGCAGAGTTATCATAATAAATTGCTAACTTGCGTATTTCCT

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## FIGURE 4746

MQFGELLAAVRKAQANVMLFLEEKEQAALSQANGIKAHLEYRSAEMEKSKQELETMAAISNTVQFLEEYCKFKNT
EDITFPSVYIGLKDKLSGIRKVITESTVHLIQLLENYKKKLQEFSKEEEYDIRTQVSAIVQRKYWTSKPEPSTRE
QFLQYVHDITFDPDTAHKYLRLQEENRKVTNTTPWEHPYPDLPSRFLHWRQVLSQQSLYLHRYYFEVEIFGAGTY
VGLTCKGIDQKGEERSSCISGNNFSWSLQWNGKEFTAWYSDMETPLKAGPFWRLGVYIDFPGGILSFYGVEYDSM
TLVHKFACKFSEPVYAAFWLSKKENAIRIVDLGEEPEKPAPSLVGTAP

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# FIGURE 4747

ACTGCCGGCCTGCGCGGTACTCACTGCCGGCCTCCGCGGTACCCACTGCCGGCCTCCGCGCTACCCGGCCGCAGC
GCGCGAGTCAC**ATG**GAAGCTCCTGAGGAGCCCGCGCCAGTGCGCGGAGGCCCGGAGGCCACCCTTGAGGTCCGTG
GGTCGCGCTGCTTGCGGCTGTCCGCCTTCCGAGAAGAGCTGCGGGCGCTCTTGGTCCTGGCTGGCCCCGCGTTCT
TGGTTCAGCTGATGGTGTTCCTGATCAGCTTCATAAGCTCCGTGTTCTGTGGCCACCTGGGCAAGCTGGAGCTGG
ATGCAGTCACGCTGGCAATCGCGGTTATCAATGTCACTGGTGTCTCAGTGGGATTCGGCTTATCTTCTGCCTGTG
ACACCCTCATCTCCCAGACGTACGGGAGCCAGAACCTGAAGCACGTGGGCGTGATCCTGCAGCGGAGTGCGCTCG
TCCTGCTCCTCTGCTGCTTCCCCTGCTGGGCGCTCTTTCTCAACACCCAGCACATCCTGCTGCTCTTCAGGCAGG
ACCCAGATGTGTCCAGGCTTACCCAGACCTATGTCACGATCTTCATTCCAGCTCTTCCTGCAACCTTTCTTTATA
TGTTACAAGTTAAATATTTGCTCAACCAGGGAATTGTACTGCCCCAGATCGTAACTGGAGTTGCAGCCAACCTTG
TCAATGCCCTCGCCAACTATCTGTTTCTCCATCAACTGCATCTTGGGGTGATAGGCTCTGCACTGGCAAACTTGA
TTTCCCAGTACACCCTGGCTCTACTCCTCTTTCTCTACATCCTCGGGAAAAAACTGCATCAAGCTACATGGGGAG
GCTGGTCCCTCGAGTGCCTGCAGGACTGGGCCTCCTTCCTCCGCCTGGCCATCCCCAGCATGCTCATGCTGTGCA
TGGAGTGGTGGGCCTATGAGGTCGGGAGCTTCCTCAGTGGCATCCTCGGCATGGTGGAGCTGGGCGCTCAGTCCA
TCGTGTATGAACTGGCCATCATTGTGTACATGGTCCTTGCAGGCTTCAGTGTGGCTGCCAGTGTCCGGGTAGGAA
ACGCTCTGGGTGCTGGAGACATGGAGCAGGCACGGAAGTCCTCTACCGTTTCCCTGCTGATTACAGTGCTCTTTG
CTGTAGCCTTCAGTGTCCTGCTGTTAAGCTGTAAGGATCACGTGGGGTACATTTTTACTACCGACCGAGACATCA
TTAATCTGGTGGCTCAGGTGGTTCCAATTTATGCTGTTTCCCACCTCTTTGAAGCTCTTGCTTGCACGAGTGGTG
GTGTTCTGAGGGGGGAGTGGAAATCAGAAGGTTGGAGCCATTGTGAATACCATTGGGTACTATGTGGTTGGCCTCC
CCATCGGGATCGCGCTGATGTTTGCAACCACACTTGGAGTGATGGGTCTGTGGTCAGGGATCATCATCTGTACAG
TCTTTCAAGCTGTGTGTTTTCTAGGCTTTATTATTCAGCTAAATTGGAAAAAAGCCTGTCAGCAGGCTCAGGTAC
ACGCCAATTTGAAAGTAAACAACGTGCCTCGGAGTGGGAATTCTGCTCTCCCTCAGGATCCGCTTCACCCAGGGT
GCCCTGAAAACCTTGAAGGAATTTTAACGAACGATGTTGGAAAGACAGGCGAGCCTCAGTCAGATCAGCAGATGC
GCCAAGAAGAACCTTTGCCGGAACATCCACAGGACGGCGCTAAATTGTCCAGGAAACAGCTGGTGCTGCGGCGAG
GGCTTCTGCTCCTGGGGGTCTTCTTAATCTTGCTGGTGGGGATTTTAGTGAGATTCTATGTCAGAATTCAG**TGAC**
GTGGTAGGAAAGAAAGTCAGGTCGAGTGATGCTTTTGAGCTTACACACAATTCACAGGCCCACCAGTGACAATTT
ACTGTGAGTTAATGTCATTCAGGTGTGCCCATGGATTTTGAGGGCTGGAAATGCAAAGACACATTTTTCTATAAA
AAGAAAAAGCAACTAAGGTTAAAAGCTATATTGTGGCCCAAGACACTGTCTGAAAGATGACATGAGTAGTAATTC
ACCACTATCTGAACCAAGCAAGGATCAATGTGCTGACTGCATTGGCCAATGGCTTTGATACTTCTGCTATTTTTT
TAGACACAAACCCATAAACTAACTGCTTAAGAATTCATACTGCTTGAATTATGTAAAATATATTTTACAGTATAT
CTTTCCTTGGGCCTTAGATTACTATTCACTGGGCAAATGGTATTTGTTTTTGTTTAATTTTTTTTTTAATAGAC
GGAAGTCTTGCTCTGTCATGCAGGCTGGAGTGCGGTGGTGCGATCATAGCTCACTGCAGCCTCGAACTCTTGGGC
TTCAAGCAATCCTCCTGTGTCAGCCACCAGAGTAGCTGAGACTACAGGGGTATGCCACCATGCCCAGCTGGCATT
TGTTAATCTTCATTTGAGGTCTAGATCTAGGCACTGTGGACACTGAAAAACAGTTGGGAAATCTTTCGAGCTGTG
GAAATCCAAACAAAGACTGATAATTCCTGGTAGGGGTGTGTGCGTGACGTACTGCAGCCTCAACCTCCTGGGCTC
AAGTGATCCTCCCACCTCAGCCTCCTGAGTAGCTGAGACCACAGGCGTGTGCCACCACGCCTAGCTAATTTTTTA
TACCAGGGTCTACCCTTTGTTCCCAGGCTGGTCTTGAATTCCTGGGATCAAGCAATCCTTCCACCTTGCCCTCC
CAAAGTGTTGGGATTATAGGCATGAGCCACCACGACTGGCCAGAGGACAAAATTTTAATAAAGGTCTTAGCTTAA
GCAGTAATCCTACTTCATTAAGCCTTCCTGGGGTGCGGTACACACCGTTAATTCAGCAACCCTCAGTACATACTA
AGTATGCTCAGTGCTGTGAAAGTGGATTACACCAAATTAAGTCATTCTTATCACACCCAATCAAAAGTCAAGAAG
CCAGGGATAAAAGCACCTCAGGCACATAACATTAATCTAGTAATGTAATTCTCTGCACATCCAGCTGGTGAAACT
GCGTGCTGTAAGCTGGGACCAGCTTTGTCCATAACTGCTGAGAGAACTTGCTGAAGCTCTAGGAATAATTTTGCC
TGCCCGGTTGCTCACCAGTTGTAGCTTGCCAGCTCCCAACACCCTTCCTGGTGCCAATAAACTTTCTCAAAGAGC
AATACTGACATTTCTTTTGATAAAACCTCCAGCCTTCTCTGTGTTGTTCCGACATACCGAGGACCAACTGGTCTA
CATGGATGCCCTGAACATGCAATTCTTTCTTCCAAAATAAAACATTAAATAGAG

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# FIGURE 4748

MEAPEEPAPVRGGPEATLEVRGSRCLRLSAFREELRALLVLAGPAFLVQLMVFLISFISSVFCGHLGKLELDAVT
LAIAVINVTGVSVGFGLSSACDTLISQTYGSQNLKHVGVILQRSALVLLLCCFPCWALFLNTQHILLLFRQDPDV
SRLTQTYVTIFIPALPATFLYMLQVKYLLNQGIVLPQIVTGVAANLVNALANYLFLHQLHLGVIGSALANLISQY
TLALLLFLYILGKKLHQATWGGWSLECLQDWASFLRLAIPSMLMLCMEWWAYEVGSFLSGILGMVELGAQSIVYE
LAIIVYMVLAGFSVAASVRVGNALGAGDMEQARKSSTVSLLITVLFAVAFSVLLLSCKDHVGYIFTTDRDIINLV
AQVVPIYAVSHLFEALACTSGGVLRGSGNQKVGAIVNTIGYYVVGLPIGIALMFATTLGVMGLWSGIIICTVFQA
VCFLGFIIQLNWKKACQQAQVHANLKVNNVPRSGNSALPQDPLHPGCPENLEGILTNDVGKTGEPQSDQQMRQEE
PLPEHPQDGAKLSRKQLVLRRGLLLLGVFLILLVGILVRFYVRIQ

5148/6881
# FIGURE 4749

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CTCTGAGCAGAACTGACAGCATGAAGGCACTCCTGGCCCTGCCGCTGCTGCTGCTTCTCTCCACGCCCCCGTGTG
CCCCCCAGGTCTCCGGGATCCGAGGAGATGCTCTGGAGAGGTTTTGCCTTCAGCAACCCCTGGACTGTGACGACA
TCTATGCCCAGGGCTACCAGTCAGACGGCGTGTACCTCATCTACCCCTCGGGCCCCAGTGTGCCTGTGCCCGTCT
TCTGTGACATGACCACCGAGGGCGGGAAGTGGACGGTTTTCCAGAAGAGATTCAATGGCTCAGTAAGTTTCTTCC
GCGGCTGGAATGACTACAAGCTGGGCTTCGGCCGTGCTGATGGAGAGTACTGGCTGGGGCTGCAGAACATGCACC
TCCTGACACTGAAGCAGAAGTATGAGCTGCGAGTGGACTTGGAGGACTTTGAGAACAACACGGCCTATGCCAAGT
ACGCTGACTTCTCCATCTCCCCGAACGCGGTCAGCGCAGAGGAGGATGGCTACACCCTCTTTGTGGCAGGCTTTG
.AGGATGGCGGGGCAGGTGACTCCCTGTCCTACCACAGTGGCCAGAAGTTCTCTACCTTCGACCGGGACCAGGACC
TCTTTGTGCAGAACTGCGCAGCTCTCTCCTCAGGAGCCTTCTGGTTCCGCAGCTGCCACTTTGCCAACCTCAATG
GCTTCTACCTAGGTGGCTCCCACCTCTCTTATGCCAATGGCATCAACTGGGCCCAGTGGAAGGGCTTCTACTACT
CCCTCAAACGCACTGAGATGAAAATCCGCCGGGCCTGAAGGGCTGGCCCCCTCAGGCACCTTTCCTCCCCTGGAC
ACCCATGGTCTCCATGAGTGCTCCCTCTGCTGCCCCTGATGCATGCTTCTGCTGATTCCCGAGCACCAACTCCTT
ACAAGGGGGCCTTGTGGCTCTCAGCCATGCCACATCCCTGTCACACACCCAGGGCATCCATTCCTAAGCCAGACC
CGGCTCCCCTACACCTGAAGTTACACTGCCAGCAGTTCCCCAGGCCTCTTCCGAGAGGCACATGGTTCTAGCCTG
GACCTGGCTGGGCTCCATGAGAATGAGTTGCCTCCACCCTGTCCCAACAGCTGACAGCCAGGAGCCACTCTCCCA
GCTGCAGGCCTTTGTGGTCCATCTTGTCCTGCTTCCTCACTGTGGACCCCTGTCTGGGCCACCCTAGTGTGCTAA
GCTGAGCAGTGCAGTGTGAACAGGGCCCATGGTGTATTCTAGGCCACAGCCCAGCACTCCTCTGGGCTGCTCTCA
AACCATGTCCCATCTTCAGCATCCCTCCCACCAACTTACTCCCCTGTGGTGAGTACCGTGGAACCCCAGCCCACC
TCACTATCATACTCAGCTTCCCCTGATGGCCCATCCCAGCCCCTGAAGCTCTATGCCAAGAACACAGCTACCGCA
CACCACCCTGAAACAGCCACAGCCAAGGTAGGCATGCATATGAGGTCTTCCCCATACCCTCTGGGTGTTGAGAGG
TTTAGCCACATGAGGGAGCAGAGGACAATCTCTGCAGGGCTGGGAGTGGGTAGGGACTGAAGGTCTCAATAAACC
TTCAGAACCTGAATGAACTGGCTTCATACACACAAACATATTTGTTTATCCCCCAAATGTAGGCACCTGGCTCCT
CCTTGCTCCCCTGCTGATGGTGTCCTACCCCGAACTCCAAAAATTACACCTGGAGTCAGGTGCAGAAGGGAACCT
TGTATTTCACAGGCCTCATTTTGATGGCAAAAAGACAGTGTAATAATA
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# FIGURE 4750

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CGGAGACCCCCGCGCTGGGGACGGGAGGCCGGCGAGCCTCGGGACCTCTGAAAGCCTTGAGGAGGCGCGGGGACA
CCATGGCCGAGCCTCTGAAGGAGGAAGACGGCGAGGACGGCTCTGCGGAGCCCCCCGGGCCCGTGAAGGCCGAAC
CCGCCCACACCGCTGCCTCTGTAGCGGCCAAGAACCTGGCCCTGCTTAAAGCCCGCTCCTTCGATGTGACCTTTG
ACGTGGGCGACGAGTACGAGATCATCGAGACCATAGGCAACGGGGCCTATGGAGTGGTGTCCTCCGCCCGCCGCC
GCCTCACCGGCCAGCAGGTGGCCATCAAAAAGATCCCTAATGCTTTCGATGTGGTGACCAATGCCAAGCGGACCC
TCAGGGAGCTGAAGATCCTCAAGCACTTTAAACACGACAACATCATCGCCATCAAGGACATCCTGAGGCCCACCG
TGCCCTATGGCGAATTCAAATCTGTCTACGTGGTCCTGGACCTGATGGAAAGCGACCTGCACCAGATCATCCACT
CCTCACAGCCCCTCACACTGGAACACGTGCGCTACTTCCTGTACCAACTGCTGCGGGGCCTGAAGTACATGCACT
CGGCTCAGGTCATCCACCGTGACCTGAAGCCCTCCAACCTATTGGTGAATGAGAACTGTGAGCTCAAGATTGGTG
ACTTTGGTATGGCTCGTGGCCTGTGCACCTCGCCCGCTGAACATCAGTACTTCATGACTGAGTATGTGGCCACGC
GCTGGTACCGTGCGCCCGAGCTCATGCTCTCTTTGCATGAGTATACACAGGCTATTGACCTCTGGTCTGTGGGCT
GCATCTTGGTGAGATGCTGGCCCGGCGCCAGCTCTTCCCAGGCAAAAACTATGTACACCAGCTACAGCTCATCA
TGATGGTGCTGGGTACCCCATCACCAGCCGTGATTCAGGCTGTGGGGGCTGAGAGGGTGCGGGCCTATATCCAGA
GCTTGCCACCACGCCAGCCTGTGCCCTGGGAGACAGTGTACCCAGGTGCCGACCGCCAGGCCCTATCACTGCTGG
GTCGCATGCTGCGTTTTGÀGCCCAGCGCTCGCATCTCAGCAGCTGCTGCCCTTCGCCACCCTTTCCTGGCCAAGT
ACCATGATCCTGATGATGAGCCTGACTGTGCCCCGCCCTTTGACTTTGCCTTTGACCGCGAAGCCCTCACTCGGG
AGCGCATTAAGGAGGCCATTGTGGCTGAAATTGAGGACTTCCATGCAAGGCGTGAGGGCATCCGCCAACAGATCC
GCTTCCAGCCTTCTCTACAGCCTGTGGCTAGTGAGCCTGGCTGTCCAGATGTTGAAATGCCCAGTCCCTGGGCTC
CCAGTGGGGACTGTGCCATGGAGTCTCCACCACCAGCCCCGCCACCATGCCCCGGCCCTGCACCTGACACCATTG
ATCTGACCCTGCAGCCACCTCCACCAGTCAGTGAGCCTGCCCCACCAAAGAAAGATGGTGCCATCTCAGACAATA
CTAAGGCTGCCCTTAAAGCTGCCCTGCTCAAGTCTTTGAGGAGCCGGCTCAGAGATGGCCCCAGCGCACCCCTGG
AGGCTCCTGAGCCTCGGAAGCCGGTGACAGCCCAGGAGCGCCAGCGGGAGCGGGAGGAGAAGCGGCGGAGGCGGC
AAGAACGAGCCAAGGAGCGGGAGAAACGGCGGCAGGAGCGGGAGCGAAAGGAACGGGGGGCTGGGGCCTCTGGGG
GCCCCTCCACTGACCCCTTGGCTGGACTAGTGCTCAGTGACAATGACAGAAGCCTGTTGGAACGCTGGACTCGAA
TGGCCCGGCCCGCAGCCCCAGCCCTCACCTCTGTGCCGGCCCCTGCCCCAGCGCCAACGCCAACCCCAACCCCAG
TCCAACCTACCAGTCCTCCTCCTGGCCCTGTAGCCCAGCCCACTGGCCCGCAACCACAATCTGCGGGCTCTACCT
CTGGCCCTGTACCCCAGCCTGCCTGCCCACCCCCTGGCCCTGCACCCCACCCCACTGGCCCTCCTGGGCCCATCC
CTGTCCCCGCGCCACCCCAGATTGCCACCTCCACCAGCCTCCTGGCTGCCCAGTCACTTGTGCCACCCCCTGGGC
TGCCTGGCTCCAGCACCCCAGGAGTTTTGCCTTACTTCCCACCTGGCCTGCCGCCCCCAGACGCCGGGGGAGCCC
CTCAGTCTTCCATGTCAGAGTCACCTGATGTCAACCTTGTGACCCAGCAGCTATCTAAGTCACAGGTGGAGGACC
CCCTGCCCCCTGTGTTCTCAGGCACACCAAAGGGCAGTGGGGCTGGCTACGGTGTTGGCTTTGACCTGGAGGAAT
TCTTAAACCAGTCTTTCGACATGGGCGTGGCTGATGGGCCACAGGATGGCCAGGCAGATTCAGCCTCTCTCTCAG
CCTCCCTGCTTGCTGACTGGCTCGAAGGCCATGGCATGAACCCTGCCGATATTGAGTCCCTGCAGCGTGAGATCC
AGATGGACTCCCCAATGCTGCTGGCTGACCTGCCTGACCTCCAGGACCCCTGAGGCCCCCAGCCTGTGCCTTGCT
GCCACAGTAGACCTAGTTCCAGGATCCATGGGAGCATTCTCAAAGGCTTTAGCCCTGGACCCAGCAGGTGAGGCT
CGGCTTGGATTATTCTGCAGGTTCATCTCAGACCCACCTTTCAGCCTTAAGCAGCCACCTGAGCCACCACCGAGC
CATGGCAGGATCGGGAGACCCCAACTCCCCCTGAACAATCCTTTTCAGTATTATATTTTTATTATTATTATGTTA
TTATTACACTGTCTTTTTGCCATCAAAATGAGGCCTGTGAAATACAAGGTT
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5150/6881
# FIGURE 4751

CCAGGAGCCCCAGTTACCGGGAGAGGCTGTGTCAAAGGCGCCATGAGCAAGATCAGCGAGGCCGTGAAGCGCGCC
CGCGCCGCCTTCAGCTCGGGCAGGACCCGTCCGCTGCAGTTCCGGATCCAGCAGCTGGAGGCGCTGCAGCGCCTG
ATCCAGGAGCAGGAGCAGGAGCTGGTGGGCGCGCTGGCCGCAGACCTGCACAAGAATGAATGGAACGCCTACTAT
GAGGAGGTGGTGTACGTCCTAGAGGAGATCGAGTACATGATCCAGAAGCTCCCTGAGTGGGCCGCGGATGAGCCC
GTGGAGAAGACGCCCCAGACTCAGCAGGACGAGCTCTACATCCACTCGGAGCCACTGGGCGTGGTCCTCGTCATT
GGCACCTGGAACTACCCCTTCAACCTCACCATCCAGCCCATGGTGGGCGCCATCGCTGCAGGGAACTCAGTGGTC
CTCAAGCCCTCGGAGCTGAGTGAGAACATGGCGAGCCTGCTGGCTACCATCATCCCCCAGTACCTGGACAAGGAT
CTGTACCCAGTAATCAATGGGGGTGTCCCTGAGACCACGGAGCTGCTCAAGGAGAGGTTCGACCATATCCTGTAC
ACGGGCAGCACGGGGGTGGGGAAGATCATCATGACGGCTGCTGCCAAGCACCTGACCCCTGTCACGCTGGAGCTG
GGAGGGAAGAGTCCCTGCTACGTGGACAAGAACTGTGACCTGGACGTGGCCTGCCGACGCATCGCCTGGGGGAAA
TTCATGAACAGTGGCCAGACCTGCGTGGCCCCTGACTACATCCTCTGTGACCCCTCGATCCAGAACCAAATTGTG
GAGAAGCTCAAGAAGTCACTGAAAGAGTTCTACGGGGAAGATGCTAAGAAATCCCGGGACTATGGAAGAATCATT
AGTGCCCGGCACTTCCAGAGGGTGATGGGCCTGATTGAGGGCCAGAAGGTGGCTTATGGGGGCACCGGGGATGCC
GCCACTCGCTACATAGCCCCCACCATCCTCACGGACGTGGACCCCCAGTCCCCGGTGATGCAAGAGGAGATCTTC
GGGCCTGTGCTGCCCATCGTGTGCGTGCGCAGCCTGGAGGAGGCCATCCAGTTCATCAACCAGCGTGAGAAGCCC
CTGGCCCTCTACATGTTCTCCAGCAACGACAAGGTGATTAAGAAGATGATTGCAGAGACATCCAGTGGTGGGGTG
GCGGCCAACGATGTCATCGTCCACATCACCTTGCACTCTCTGCCCTTCGGGGGCGTGGGGAACAGCGGCATGGGA
TCCTACCATGGCAAGAAGAGCTTCGAGACTTTCTCTCACCGCCGCTCTTGCCTGGTGAGGCCTCTGATGAATGAT
GAAGGCCTGAAGGTCAGATACCCCCCGAGCCCGGCCAAGATGACCCAGCACTGAGGAGGGGTTGCTCCGCCTGGC
CTGGCCATACTGTGTCCCATCGGAGTGCGGACCACCCTCACTGGCTCTCCTGGCCCTGGGAGAATCGCTCCTGCA
GCCCCAGCCCAGCCCCACTCCTCTGCTGACCTGCTGACCTGTGCACACCCCACTCCCACATGGGCCCAGGCCTCA
CCATTCCAAGTCTCCACCCCTTTCTAGACCAATAAAGAGACGAATACAATTTTCTAACTC

5151/6881
# FIGURE 4752A

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AACTGGAAGGCGCCCGGTCCTTTCTTTGACTGGAGCGGACCCGCCGGACGCAACCGCCTCGCCAGCCGGAGCCAG
CGCGAGCTCGGCACGGTGGACACCCGGTCCGAGGCCGGCAAGCCGGCTGGTGCCCGAGTCGGCCAAGCATGGGCA
ACCACTCAGGACGGCCCGAGGATCCGGAACCAGGGGCCTTTACAACAACTAAACGGACAGGCATTCCAGCCCCAC
GGGAATTTTCAGTAACTGTCTCAAGAGAGAGGTCTGTGCCACGTGGTCCCTCCAACCCCAGGAAATCAGTGTCCA
GTCCAACTTCTTCCAACACTCCCACTCCTACGAAACACCTGAGGACCCCTTCCACAAAGCCCAAGCAAGAGAATG
AAGGTGGAGAAAAGGCTGCGCTTGAGTCCCAAGTTCGGGAACTTTTGGCAGAAGCCAAAGCAAAAGATAGTGAAA
TTAACAGGCTTCGAAGTGAACTAAAGAAATACAAAGAGAAAAGGACTCTGAACGCTGAGGGGACTGATGCTTTGG
GCCCAAATGTCGATGGAACATCAGTCTCCCCAGGTGACACGGAACCTATGATAAGAGCTCTTGAGGAGAAGAACA
AGAACTTTCAGAAAGAGCTTTCCGATCTAGAGGAAGAAAACCGGGTCCTGAAGGAGAAACTGATCTATCTTGAGC
ACTCCCCAAATTCAGAAGGGGCAGCAAGTCACACTGGCGACAGCAGCTGCCCAACATCCATAACTCAAGAGTCAA
GCTTCGGAAGCCCAACTGGAAATCAGATGTCCAGTGACATTGATGAGTATAAAAAAAACATACATGGAAATGCAT
TACGGACATCAGGCTCCTCAAGTAGCGATGTTACCAAAGCTTCTTTGTCGCCAGATGCTTCCGACTTTGAGCACA
TTACAGCAGAGACACCCTCAAGGCCCCTGTCCTCCACCAGTAACCCCTTTAAGAGTTCAAAGTGTTCTACTGCTG
GGAGTTCCCCAAACAGCGTAAGTGAATTGTCCCTGGCTTCCCTCACAGAGAAGATACAAAAGATGGAAGAAAACC
ACCATAGCACTGCAGAAGAACTACAGGCTACTCTACAAGAATTATCAGACCAGCAACAAATGGTACAGGAATTGA
CAGCTGAAAATGAGAAGCTGGTGGATGAAAGACGATTTTAGAGACATCCTTTCATCAGCATCGAGAGAGGGCAG
AGCAGCTAAGTCAAGAAAATGAGAAGCTGATGAATCTTTTACAAGAGCGAGTAAAGAATGAAGAGCCCACCACTC
AGGAAGGAAAAATTATTGAACTGGAGCAGAAGTGCACAGGTATTCTTGAACAGGGCCGCTTTGAAAGAGAGAAGC
TACTCAACATTCAGCAGCAGTTGACCTGTAGCTTGCGGAAGGTTGAGGAAGAAAACCAAGGAGCTTTAGAAATGA
TTAAACGTCTGAAGGAAGAAAATGAAAAACTGAATGAGTTTCTAGAACTGGAACGGCATAATAATAACATGATGG
CCAAAACTTTGGAAGAGTGTAGAGTTACCTTGGAAGGGCTAAAAATGGAGAATGGATCTTTGAAGTCTCATTTGC
AGGGTGAGAAGCAGAAAGCCACAGAGGCCAGTGCTGTGGAGCAGACGGCAGAGAGCTGCGAAGTTCAAGAAATGT
TGAAAGTAGCCCGAGCAGAGAAAGATCTACTGGAACTGTCTTGCAATGAGCTCAGACAAGAATTACTAAAGGCAA
ACGGTGAAATTAAACATGTTTCCAGTCTGCTGGCCAAGGTGGAAAAGGATTATTCATACCTGAAGGAGATATGTG
ATCACCAAGCCGAACAGCTGAGCAGAACCAGCCTAAAGCTGCAAGAAAAAGCATCAGAGAGTGATGCAGAGATCA
AAGACATGAAAGAAACCATATTTGAATTGGAAGATCAGGTGGAACAGCACCGGGCTGTCAAGTTACACAATAATC
AACTCATCAGTGAGCTAGAAAGTAGTGTGATCAAGCTGGAGGAACAGAAGTCAGACCTGGAGAGGCAGCTGAAGA
CTCTGACCAAGCAGATGAAGGAGGAGACCGAGGAATGGAGGCGGTTCCAGGCGGATCTGCAGACCGCAGTGGTGG
TGGCCAATGACATCAAGTGTGAGGCCCAGCAGGAGCTGCGCACCGTGAAGAGGAAACTGCTGGAGGAGGAGGAGA
AGAATGCCCGGTTGCAGAAGGAGCTGGGGGATGTGCAGGGCCACGGCAGGGTGGTCACCAGCAGAGCCGCCCCTC
CACCTGTGGATGAAGAGCCAGAGTCCTCTGAGGTCGATGCTGCTGGTCGGTGGCCTGGTGTCTGTGTTAGCAGAA
CATCTCCAACACCCCCAGAGTCGGCAACCACCGTTAAGTCACTTATCAAGTCATTTGACTTGGGACGCCCAGGTG
GAGCTGGACAGAATATTTCTGTCCATAAGACCCCCAGAAGTCCCCTAAGTGGGATACCAGTGAGGACTGCTCCAG
CAGCTGCTGTCTCTCCAATGCAGAGGCATTCGACTTACAGCAGTGTGCGGCCAGCCAGCAGAGGGGTGACTCAAC
GCTTGGACCTTCCTGACCTTCCCCTCTCAGATATTCTAAAGGGAAGGACTGAGACCCTGAAGCCAGACCCCCACC
TCCGCAAGAGTCCCTCACTAGAGTCACTGAGCAGACCCCCGTCTCTGGGCTTTGGGGACACAAGACTGCTGAGTG
CTTCCACCCGGGCATGGAAACCACAAAGCAAACTCAGTGTGGAAAGAAAAGACCCTCTGGCAGCCTTGGCCCGGG
AATACGGTGGTTCCAAGCGCAATGCTCTACTGAAATGGTGCCAGAAGAAGCACACAAGGTTATGCGAACATTGACA
TCACCAATTTCAGCAGCAGCTGGAGCGATGGCCTGGCCTTCTGTGCTCTGCTCCACACCTACCTGCCTGCCCACA
TCCCCTACCAGGAGCTGAATAGTCAGGAGAAAAGAGGAATCTCTTGTTGGCATTTGAAGCGGCTGAAAGTGTAG
GCATCAAACCCAGCCTGGAACTCAGCGAGATGCTGTACACAGACCGGCCCGACTGGCAGAGTGTGATGCAGTACG
TGGCCCAAATCTACAAGTACTTTGAGACGTAACCCTGGAGGGCCTGGGGCAGCCACCATTGCCACCTACTGCAGC
TTTTCCTGGAAGCGCCTGATTACTGTCCACTGACCCTGCTCTGCCCACCACCCAGCTGCCTAGACTTCAAAGACA
GGCTCAATCCAAGTGGACCAACACCCAAATAAGAAACAGAGTGGGTCCCACGATGTACCTGTCTGAAATGCAAAT
GCAGCTGGACTGTAAATTGGGGACTCTTTGATCTCTTGTGGGATGCTTCTAAAGAGGGCAGCCTCCCTCCTTCCA
GACCAAGACCCCACACCCAGGCTTGTTTTGCTGATTATATTGGGTGGCTGAACGAACACATTATCTGCAGAAATT
CAGACAAAGAACATCTCCAAATCAGTCTTTTGGTTGCTGTTGTTAAAAATATCCCGGCTTTGCCTTTATGAAACC
TTTGCCCTTGGCTGGGTGTGGTAGCTCGTGGCTGTAATCCCAGCACTTTAGGAAGCCAAGGCAGTAGGATCGTTT
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5152/6881
## FIGURE 4752B

GAGCCCAGGAGTTCGAGGCTGCAGTGAGCTATGAGCATACCACTGCACTCCAGCCTGTGTGAAAGAGCCAGACCC
TGTCTC

# FIGURE 4753

MGNHSGRPEDPEPGAFTTTKRTGIPAPREFSVTVSRERSVPRGPSNPRKSVSSPTSSNTPTPTKHLRTPSTKPKQ
ENEGGEKAALESQVRELLAEAKAKDSEINRLRSELKKYKEKRTLNAEGTDALGPNVDGTSVSPGDTEPMIRALEE
KNKNFQKELSDLEEENRVLKEKLIYLEHSPNSEGAASHTGDSSCPTSITQESSFGSPTGNQMSSDIDEYKKNIHG
NALRTSGSSSSDVTKASLSPDASDFEHITAETPSRPLSSTSNPFKSSKCSTAGSSPNSVSELSLASLTEKIQKME
ENHHSTAEELQATLQELSDQQQMVQELTAENEKLVDEKTILETSFHQHRERAEQLSQENEKLMNLLQERVKNEEP
TTQEGKIIELEQKCTGILEQGRFEREKLLNIQQQLTCSLRKVEEENQGALEMIKRLKEENEKLNEFLELERHNNN
MMAKTLEECRVTLEGLKMENGSLKSHLQGEKQKATEASAVEQTAESCEVQEMLKVARAEKDLLELSCNELRQELL
KANGEIKHVSSLLAKVEKDYSYLKEICDHQAEQLSRTSLKLQEKASESDAEIKDMKETIFELEDQVEQHRAVKLH
NNQLISELESSVIKLEEQKSDLERQLKTLTKQMKEETEEWRRFQADLQTAVVVANDIKCEAQQELRTVKRKLLEE
EEKNARLQKELGDVQGHGRVVTSRAAPPPVDEEPESSEVDAAGRWPGVCVSRTSPTPPESATTVKSLIKSFDLGR
PGGAGQNISVHKTPRSPLSGIPVRTAPAAAVSPMQRHSTYSSVRPASRGVTQRLDLPDLPLSDILKGRTETLKPD
PHLRKSPSLESLSRPPSLGFGDTRLLSASTRAWKPQSKLSVERKDPLAALAREYGGSKRNALLKWCQKKTQGYAN
IDITNFSSSWSDGLAFCALLHTYLPAHIPYQELNSQEKKRNLLLAFEAAESVGIKPSLELSEMLYTDRPDWQSVM
QYVAQIYKYFET

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# FIGURE 4754

CGCGGTGCCTTTTGAGCTCCTTGTCCACGCTCCGCCCCTGTGGGAACGGCCGCGCTCCCCGCAGCTGGTCATCCG
CCGCCTGCCTCCGGGCCTCACCAAGGAGCAGCTGGAGGAGCAGCTGCGCCCGTTGCCAGCACACGACTACTTCGA
GTTCTTCGCCGCCGACCTGAGTCTTTATCCTCATCTCTACTCAAGAGCATACATTAATTTTAGGAATCCTGATGA
CATCCTTCTTTTTAGAGATCGTTTTGATGGGATATATCTTCCTTGACAGCAAAGATCCAGAATATAAGAAGTTTT
TAGAAACCTACTGTGTGGAGGAAGAGAAGGCCAGTGCCAACCCTGAGACTCTGCTGGGGGAGATGGAGGCGAAGA
CAAGAGAGCTCATTGCTAGAAGAACCACACCTCTTTTGGAATATATTAAAAATAGAAAATTAGAAAAGCAGAGAA
TTCGAGAAGAGAAGCGAGAAGAACGGAGGAGGAGAGAGTTAGAAAAGAAACGTTTGCGGGAAGAGGAAAAAAGAA
GAAGAAGAGAAGAAGAAAGATGCAAAAAAAAAAAGAGAGACAGATAAACAGAAGAAAATTGCAGAGAAAGAAGTA
AGGATTAAGCTTCTTAAGAAACCAGAAAAGGGAGAGGAACCAACCACAGAGAAACCAAAAGAAAGAGGAGAGGAG
ATTGATACTGGAGGTGGCAAGCAGGAATCCTGTGCCCCCGGTGCAGTCGTAAAAGCCAGGCCCGTGGAAGGCTCG
CTGGAGGAGCCCCAGGAGACGTCACACAGCGGCAGTGATAAAGAGCACAGGGATGTGGAGAGATCTCAAGAACAA
GAATCTGAAGCACAAAGACACCATGTGGATGATGGCAGGAGGCACAGAGCTCACCACGAGCCTGACCGGCTTTCC
AGAGGGAGTGAGGATGAGCAGAGATGGGGGAAAGGACCTGGCCAAGACAGAGGGAAGAAGGGGAGCCAGGACAGC
GGGGCTCCGGGGGAGGCCATGGAGAGACTGGGAAGAGCGCAGAGGTGTGACGACAGTCCAGCACCCAGAAAAGAG
CGACTGGCAAACAAGGACCGGCCAGCCTTGCAGCTGTATGATCCAGGAGCTCACTTCCGAGCGCTAGAGTGTGGC
GGAAACAGGAGGATCTGCAAGGCAGAAGGTTCGGGAACTGGTCCTGAGAAGAGGGAAGAGGCAGAGTGAGTCACT
GCACGCACCTGGCCTCCATGGACGAGCGAGGGCATCCCAGAAACGTGTAAATGACCCCGAGTGTGACTGGGAAGG
AGAACTTATTCCTTACCAGGAAACTGGAAGCTAAAACTACAGAGGGTGACATAGAAACACGCAGAAACCATTCTA
AAGAAAGTAGTGATCTTGTATTAAATTGAGCAGAATTCTCACAGATTTTACCATTCCTGTTATAAACTAGTATTT
GTTGTTTAGCCAAAACAGAAAATGATTTCCACTGGACAGTAGAAAAATATGTGTAAAATAGGGAAGAAAGTTAGT
ATTGGATCAGTGTGAGTCCTGAAGCACTTTCAGTGCTGTGAGAACGACATCCACTTTGGGTTTCATTCGTTTGTA
AGCAGAGGAGCTGTCAGTCACTCGTGCTTCTCGTTGGCCTCTGAGCCATGGTGTCGAGTGAAGAGTAGTTCTTGT
TTGTTACAACCTTTGTGAGTCAGCCATGCCTGCAAAGTGTGCTGTGTTTTAGTCCTGGTAGGAATATTTATCAGA
GTTCACACTATATAAAACCCAACAGCTTCAACTATTGCCCTTTCAACAGTTTTGCCACTGACCGGATAAAAACGG
TTTCAGTCTTTGGATGGATGTGTTTGTGGTTTGTAACCATTACGGTTTAAACCATGGTTTAAGAATTTGCCCAAA
TAACAGAAATTTTGTTCGGGAAGGGATAAACGAGATATAGCATATAGAGCCTGTTTTTGAGTTTTAGATACTTTA
TTTGTAAATAACTTAAAATAGCTTTCTGAAACCGTGCATTCTGTAGTTTCTTCCTTTCAGTGAAATTGCTAAATG
TGAATGTATTTTTGGCACTGCGATTTTAACCATTTATTAAATAAAAATTTTGTTAAAG

# FIGURE 4755

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GTAAGACACCTTTGCAGTCCTTCCTGGGAATCGCTGAGCAGCACGGGGGCCCCCAAAATGGGACCCTGATCACTC
AGACTCTGAGCCAAGCCAACCCCACTGCCATCACTGCAGAAGAATACTTCAACCCCAACTTTGAGCTGGGCAACC
GTGATATGGGCCGCCCCATGGAACTGACCACCAAGACACAGAAGTTCAAGGCCAAGCTGTGGCTGTGTGAGGAGC
ATCCCCTGTCCCTGTGTGAGCAGGTGGCCCCCATCATTGACCTCATGGCCGTCAGCAATGCGCTTTTTGCCAAGC
TCCGGGACTTCATCACCCTGCGTCTGCCTCCTGGCTTCCCAGTTAAGATTGAAATCCCGATCTTCCACATCCTCA
ACGCCCGCATCACCTTCGGGAACCTCAACGGCTGCGACGAACCGGTGCCATCGGTGCGAGGCAGCCCCAGCAGCG
AGACGCCTTCCCCAGGCAGCGACTCCTCCAGCGTCAGCAGCTCCAGCTCCACGACCTCCTGXCCGCGGCTGCGAG
ATCTCCCCAGCGTTGTTCGAGGCCCCGCGCGGCTACAGCATGATGGGCGGCCAGCGGGAGGCGGCGACCCGGGAC
GACGACGACGACCTGCTGCAATTCGCCATCCAGCAGAGCCTGCTTGAGGCGGGCAGTGAGTATGACCAGGTCACC
ATCTGGGAGGCGCTAACCAACAGCAAGCCAGGCACCCACCCCATGTCCTACGAGGGTCGCCGACAGGACAGGAGC
GCCCCGCCCACGCCGCAGCGCCAGCCTGCGCCCCCGGCGTCAGTGCCCAGCCCTCGGCCCAGCTCAGGGCCAGGT
TCCGGCGGCCACGTGTTCCGGAGCTACGACGAGCAGCTGCGGCTGGCGATGGAACTGTCGGCGCAGGAGCAGGAG
GAGAGGCGGCGGCGCGCGCGCCAGGAGGAGGAGGAGCTGGAGCGCATCCTGAGGCTCTCACTGACCGAGCAGTAG
CGCCCCCTGCCGGGACCCTCGCCAGCGCCACGCGCGCCACGCCCAGGGCCAGGAGCCAGACAAACCCCGGCCTGC
GCGCCTGCAGAGCGGCGGCTGGAGACTGGAGCCACCGCCTCGCGGGTGCAGCAGCACAGCAGGCACGGTTCGGGG
AGGGATTCGGCATGGCCGCGGGGTACCTTCCCAGGCCAGGGCCCTGGAGGCAACTGGCACGGCCTGGTCCCCCTG
CTTTGCTGTATTCTGATTCCCCAACCCGCTCCCCTGGGCTCAGATCTGTCCTGTCCTAGGGCGGAGCCAGGCGGT
CCTGAGGGGGAGATGAATCCTTAGAGGAGCGCTGTCCCTATCCCTTGCTCCTTCTGGCCGGTCCGCATTTCTGTT
CACTAACCCCACTCCAGGACACTGCCCCTGAAGCCTTTGCATCTCTGCTCTTCACTCCTGGGGGGCAGCTGAGCT
CCCCGCGTGCTGTGTCACTGCTTTGTTCCAGACACAAACCAGCACGTCTAGGGCCCAGCCCCTCCCCCACCCCGG
CATTTCAGCGTCAAGTGCACTTAGCGGGGTACCCGGCTCCCCCAGCCCCCACACCCGTCCTGGGTCTCAGGGTGG
TTCCAGCTTCTCCTTGGGCAGCCAGAAGTTGGAGTCCCATCCCCCAAGGCACATTTTTTTTTTTTTTTTTGTG
ATCAGGGAGTGTGTCCAACGTAGCCCCCTGGCCTGTGCAAGCCCTGACTCCCTCATGGTGCCTCGGAGAGTGGGG
AGCATATTGGGCTGGGGTAAGCACTAGACCCAAGTAGACTGGACACAAAGGGCTCGCCCAGGGCCCTGGCGCCAC
CCCCACCCCTTCCCACCAGCTGCTGCTAGCCTCTGTGGTTGTACATCCCACTTGCCCCCACACGGAGACTGACTC
TAAAACCCTTCATCCAATGGTGCTAACCCCCGGCTCTCCCCTGCCCCACCTCACCCACCCAGAGAAGCACAGACC
CCGCCAGGGGCAGGGGCCCACCGCACACCCTTGTCCCGGGCCTGTCTGGGACTGGCCTTCCCGGCTCAGCCAGTG
AGGCTCAGAAGGGACACAAAGAGGGATGGAAGAAAAGAACAAAGAGAAACTGTTCCTCCCACCCCCTTCCCTGAT
GCCAGGGGCACCAGACTGATTCTGAGGCACAAATAAAAGAGGCTTCATACCGG
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5156/6881
# FIGURE 4756

MTWQRGNRSFVFRGQDTSAVVMEIDHDRRVVYTETLALAGQDRELLLAAAQPTEEQVLSRLTAPVVTTQLDTKNI
SFERNKTGILGWRSEKTEMVNGYEAKVYGASNVELITRTRTEHLSEQHKGKVKGCKTPLQSFLGIAEQHGGPQNG
TLITQTLSQANPTAITAEEYFNPNFELGNRDMGRPMELTTKTQKFKAKLWLCEEHPLSLCEQVAPIIDLMAVSNA
LFAKLRDFITLRLPPGFPVKIEIPIFHILNARITFGNLNGCDEPVPSVRGSPSSETPSPGSDSSSVSSSSSTTSC
RGCEISPALFEAPRGYSMMGGQREAATRDDDDDLLQFAIQQSLLEAGSEYDQVTIWEALTNSKPGTHPMSYEGRR
QDRSAPPTPQRQPAPPASVPSPRPSSGPGSGGHVFRSYDEQLRLAMELSAQEQEERRRRARQEEEELERILRLSL
TEQ

## FIGURE 4757

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TCGCCGCTGAGGATGTCCCGAAAGGGGCCGCGAGCGGAGGTGTGTGCGGACTGCAGCGCCCCGGACCCTGGCTGG
GCATCCATCAGCAGGGGTGTGCTGGTGTGTGACGAGTGCTGCAGCGTGCACCGGAGCCTGGGACGCCACATCTCC
ATTGTCAAGCACCTTCGCCACAGCGCCTGGCCTCCCACGCTGCTGCAGATGGTGCACACGCTTGCCAGCAACGGG
GCCAACTCCATCTGGGAGCACTCCCTGCTGGACCCCGCACAAGTGCAGAGCGGCCGGCGTAAAGCCAACCCCCAA
GACAAAGTCCACCCCATCAAGTCAGAGTTCATCAGGGCCAAGTACCAGATGCTGGCATTTGTGCACAAGCTTCCC
TGCCGGGACGATGATGGAGTCACCGCCAAAGACCTCAGCAAGCAACTACACTCGAGCGTGCGGACAGGCAACCTG
GAGACATGTCTGCGCCTGCTCTCCCTGGGTGCCCAGGCCAACTTCTTCCACCCAGAGAAGGGCACCACACCTCTG
CACGTGGCTGCCAAGGCAGGACAGACACTGCAGGCCGAGCTGCTTGTAGTGTATGGGGCTGACCCTGGCTCCCCT
GATGTTAATGGCCGCACACCCATTGACTATGCCAGGCAGGCGGGGCACCATGAGCTGGCGGAAAGGCTGGTTGAG
TGCCAATATGAGCTCACTGACCGGCTGGCCTTCTACCTCTGTGGACGCAAGCCGGATCACAAGAATGGGCATTAC
ATCATCCCACAGATGGCTGACAGATCTCGGCAAAAGTGCATGTCTCAGAGCCTTGACTTATCCGAATTGGCCAAA
GCTGCTAAGAAGAAGCTGCAGGCGCTCAGCAACCGGCTTTTTGAGGAACTCGCCATGGACGTGTATGACGAGGTG
GATCGAAGAGAAAATGATGCAGTGTGGCTGGCTACCCAAAACCACAGCACTCTGGTGACAGAGCGCAGTGCCGTG
CCCTTCCTGCCTGTTAACCCGGAATACTCAGCCACGCGGAATCAGGGGCGACAAAAGCTGGCCCGCTTTAATGCC
CGAGAGTTTGCCACCTTGATCATCGACATTCTCAACAACCTCGAGCTGTCTCTGCGGAGCCAGAGTGACCTCGAC
GACCAACACGACTACGACAGCGTGGCCTCTGACGAGGACACAGACCAGGAGCCCCTGCGCAGCACCGGCGCCACT
CGGAGCAACCGGGCCCGGAGCATGGACTCCTCGGACTTGTCTGACGGGGCTGTGACGCTGCAGGAGTACCTGGAG
CTGAAGAAGGCCCTGGCTACATCGGAGGCAAAGGTGCAGCAGCTCATGAAGGTCAACAGTAGCCTGAGCGACGAG
CTCCGGAGGCTGCAGCGAGAGATCCACAAGCTGCAGGCGGAGAACCTGCAGCTCCGGCAGCCTCCAGGGCCGGTG
CCCACACCTCCACTCCCCAGTGAACGGGCGGAACACACACCATGGCGCCAGGCGGGAGCACACACCGCAGGGAT
CGCCAGGCCTTTTCCATGTATGAACCTGGCTCTGCCCTGAAGCCCTTTGGGGGCCCCCCTGGGGACGAGCTCACT
ACGCGGCTGCAGCCTTTCCACAGCACTGAGCTAGAGGACGACGCCATCTATTCAGTGCACGTCCCTGCTGGCCTT
TACCGGATCCGGAAAGGGGTGTCTGCCTCAGCTGTGCCCTTCACTCCCTCCTCCCCGCTGCTGTCCTGCTCCCAG
GAGGGAAGCCGCCACACGAGCAAGCTTTCCCGCCACGGCAGTGGAGCCGACAGTGACTATGAGAACACGCAAAGT
GGGGACCCACTGCTGGGGCTGGAAGGGAAGAGGTTTCTAGAGCTGGGCAAAGAGGAAGACTTCCACCCAGAGCTG
GAAAGCCTGGATGGAGACCTAGATCCTGGGCTTCCCAGCACAGAGGATGTCATCTTGAAGACAGAGCAGGTCACC
AAGAACATTCAGGAACTGTTGCGGGCAGCCCAGGAGTTCAAGCATGACAGCTTCGTGCCCTGCTCAGAGAAGATC
CATTTGGCTGTGACCGAGATGGCCTCCCTCTTCCCAAAGAGGCCAGCCCTGGAGCCAGTGCGGAGCTCACTGCGG
CTGCTCAACGCCAGCGCCTACCGGCTGCAGAGTGAGTGCCGGAAGACAGTGCCCCCAGAGCCCGGCGCCCCAGTG
GACTTCCAGCTGCTGACTCAGCAGGTGATCCAGTGCGCCTATGACATCGCCAAGGCTGCCAAGCAGCTGGTCACC
ATCACCACCCGAGAGAAGAAGCAGTGACCTCTCTCCCCACACCCTCACCTGCACCCTAGGACCTCACTGGCCATA
GGAGCTGGGCCACTCCAGACATTAATCCCCACCCCAACAGAGCCACTGGCACAAGTGCCCTTAGTGCTGCCACAC
TCCCTGGCAGCCAGGTGCCCTGGTGCCCACCCCTGTCGAGCCCCTAAGGATGGGGAGGTTGGGGGGGGCAGGAGCT
TCTGTCCCCCACATTCCATGCACCTCCCCTCTGTATATAGCATCTCCCCCCTCCTAGTGAGCAGGGGCCTGCAAG
GCATCACTCCCAGCCCCTCGCCTTCTAGGGCACCCTCAGCAAAGGGGCAGGTGGGGACACTCCAAGTGGGGCAGC
TCTCCGTACATGCGCCCCACCCCCATGAGCCAGTTCAGCCCTACTGGGGGCTGAGCGGGGGCATCCCCTCCTTTG
TACATAGTCTCCATGGATGTCCCTGCCCTGTAGCCACCAGCCCCTTGCTGCTCTCCCTTTAATGCCATATGGCCC
CTGCCTAGGGCACAGGCCCCAACCTGTGTGCTGGGGTCCCCAGCAGCAAACACTGGAAAGTCTGTTTTTTTTTTT
TCTTTCTTCTTCCCCACCCCTTAATTTTAACTTTGTGGTAACTGAGTGCCCCGCGTGCCTGCGTGTTGAGTGTG
TGGGCGGCAGTGCCGTTCCGGAGGCCTGGTCCATCTGGAGTTTTGAGGGGTGAGGGGACCAGAGCAGTGGGACCA
GCATGGGGATCAGCTTCCCTTCCCCACCTGGAGCCAGGGACTGTCCGGGTAGCCAGTTTTGGTCCTGCCAGCTGC
CTCCCTGATCCCTCCCCACTCTCGCCCCTTCTCTATGAACTTAAATCAAAAACCACTTCCCTCCATCTCCTCCTG
CTCCTGCGTGGAGGGGGAATGTGTGCTGGCTAGGGTGGAGGACTGAGCACCTGAGCCTGGGGCTGGCTCCCCGGG
GTCCCCGACTCAGCTGGTGGCTGTGGAGCTGAGTCCCCTCCCCGTAACCTCTGCAAGGCCAGCACCCACCATCAC
TACCTGCACCTGCTGTGGTCCCACCCTCTGGAGCCTGGGAACCTGGCTGCAGCCTGGGAAGGCTGGAGAGGCAG
ACGGTGGGACCCACCAGCTCTCTCCCCATCCCGCTTCTTCCCTGGGGGCCAGGCCCTACCTGTGTGGTGGTGGGT
GGGCTGTCAAGACGTGTCATGTACATTTGTATCAAAAATAAAGAAGTGACCATG
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5158/6881
# FIGURE 4758

AGCCCTCGCGGGGGGCAAGGCGGCGACCGAGGCGCGTGGGTCTGGGAAGGCGCGCGGATTTGGCCCCTCTTCTCAC
ATCAGCGGGTCCAGGCCCAACCGACAGACTATGGGGGCTCCGGCAACCAGGCGCTGCGTGGAGTGGCTGCTGGGC
CTCTACTTCCTCAGCCACATCCCCATCACCCTGTTCATGGACCTGCAGGCGGTGCTGCCGCGCGAGCTCTACCCA
GTCGAGTTTAGAAACCTGCTGAAGTGGTATGCTAAGGAGTTCAAAGACCCACTGCTACAGGAGCCCCCAGCCTGG
TTTAAGTCCTTTCTGTTTTGCGAGCTTGTGTTTCAGCTGCCTTTCTTTCCCATTGCAACGTATGCCTTCCTCAAA
GGAAGCTGCAAGTGGATTCGAACTCCTGCAATCATCTACTCTGTTCACACCATGACAACCTTAATTCCGATACTC
TCCACATTTCTGTTTGAGGATTTCTCCAAAGCCAGTGGTTTCAAGGGACAAAGACCTGAGACTTTGCATGAACGG
TTAACCCTTGTGTCTGTCTATGCCCCCTACTTACTCATCCCATTCATACTTTTAATTTTCATGTTGCGGAGCCCC
TACTACAAGTATGAAGAGAAAGAAAAAAAAAATGAAGGAAACAACCACTGGCCCAGGGTAGAGATGCCTACAGG
GTGGTTGCTTGTTGGATACAATACAAGGAACACTGCTCAGAACCCACGTCTTCAGCAGCATTTGAAACACTGGCA
GCAATGCACAAGAGCAAGATGGTGTCAGGAACCATGTCAAACCCTCACCTTCTTCCATTTTTTTTTTTTTTTTTAA
GACAGTCTCACTCTGTTGCCCAGGCTGGAGTAAAGGGCAGTGGCATGATCTCGGCTCACTGCAACCTCCGCCTCC
TGGGCTCAAGCCATCTTCCTTAGCCTCCCAAGTAGCTAGAACTACAGGTGTGTACCAACACGTATGGCTAATTTG
TTTTGTTTTTTTGTGTGTGTGGAGACAGGGTTTTGCCATGTTGCCCAGGTTGGTCTCGAACGCCTAGGCTCAAG
TGATCTGCCCACCTCAGTCTCCCTAAGTGCTGGGATTACAGACGTGAACCACTGGGCCCAGCCCAAACCTTCACC
TTCTAAGGGCACTGGGATGAACAGACCGATCGGCTTGAGGGTGGGCAAAGGGGTGTGGGCTAGGTTATAAGGAAG
TGGTACCAAATAACTGTGTGCCTGAGTTCCACCGCAAGATTACTAAAAGCAGGACCAGACCAGAAACTGCTAAAG
AACATGGCCTGTTTGACATGTTCATGAGTCACCTGACCCACAGCATATATGCTTATGACTAAACCCTCCACTCCT
GATTCTCAAGAGTGTATCACCTGTCAGCAAAATGAATAGTGGGATATTTTGGGCCATTTTAAATGTGAAATTTTG
CCTCTTTAATGTTAATTCAAAACTATATCAATGTTTTCTTGTTCCCACCTCTAACCCAAGGAAAAAAGAGAAAAC
ATACTATGCAAAGGAAGTTTAAACTTAAGTTTTCCTTAAGGGTCAGCCCAACAATGACTTTCAGTCAAATGGATT
AAACTGGAAAATGTTTTTGTTTCTGTTGTAAACAGATCATCCTAGGCGAAAGTTTTTTTTGTTTGTTTGCTTTTA
AATTAGTTTATTTCTAAATCTTAGTCTTCCACATTTCTAGAGGCCACCTGACACAAGTCCCTGTATCTGAAGTCT
AGCATCTCAAGGCTGATCTGGAAGTGTGCTAGTATGCTCCCTAGTGGATAACTTAATCTTTTAATACAGTTCCGT
CATTCCCATCTTGTTTTCAGAAGAGAAGGTGGCTACAGCCAGGCATAACATATCCACTGTGTGCATAGAGGGTCT
CTTCACGTTGATGCTTGGCATTCCATCAGCTTTCTCTAAGTCTTTGCTCAAGTTCAACCTTAAAATGATGTTAGA
CAACAGGTCCCAGTCAGTTCCCTCTATTTTCACCCATTTGCTCACAAGCCATATTGGCCCGATTAGTGGTACTG
TCTGACTCACGTGTGTGATCCAAATAAAGGTAGCTGCTG

5159/6881
# FIGURE 4759

MKRKEKKNEGNNHWPRVEMPTGWLLVGYNTRNTAQNPRLQQHLKHWQQCTRARWCQEPCQTLTFFHFFFFFKTVS
LCCPGWSKGQWHDLGSLQPPPPGLKPSSLASQVARTTGVYQHVWLICFVFFVCVETGFCHVAQVGLERLGSSDLP
TSVSLSAGITDVNHWAQPKPSPSKGTGMNRPIGLRVGKGVWARL

5160/6881
# FIGURE 4760

GCCACCCAGCTGAGAGGAGAGGCGCCCCCGGGGACGCACTGAGATTATGAGGCTCTGGCCTCCACTGGCCACTCA
CTCGTGACCCTTTCCACCACGGCGGAGCCTTCCAAGCCTACCTCCTGCCGTGTGGTGATCTACCTGCAGCGGGAG
ATGTCGGGGGACACCTGCCTGTGCCCAGCCTCAGGGGCCAAGCCCAAGCTCAGTGGCTTCAAGGGAGGAGGGTTG
GGCAACAAGTATGTCCAGCTCAACGTGGGCGGCTCTCTGTACTACACCACTGTGCGGGCCCTGACCCGCCACGAC
ACCATGCTCAAGGCCATGTTCAGTGGGCGCATGGAGGTGCTGACCGACAAAGAAGGCTGGATCCTCATAGACCGT
TGTGGAAAGCACTTTGGCACCATTTTGAATTACCTCCGAGATGACACCATCACCCTCCCTCAGAACCGGCAAGAA
ATCAAGGAATTGATGGCTGAAGCAAAGTATTACCTCATCCAGGGGCTGGTGAATATGTGCCAGAGTGCCCTGCAG
GACAAGAAGGACTCCTACCAGCCTGTGTGCAACATCCCCATCATCACATCCCTAAAGGAGGAGGAGCGGCTCATC
GAATCCTCCACCAAGCCCGTGGTGAAGCTGCTGTACAACAGAAGCAACAACAAGTATTCCTACACCAGCAACTCT
GACGACCACCTGCTGAAAAACATCGAGCTGTTTGACAAGCTCTCCCTGCGCTTCAACGGCCGCGTGCTCTTCATC
AAGGATGTCATTGGTGACGAGATCTGCTGCTGGTCCTTTTATGGCCAGGGCCGTAAGCTGGCAGAGGTGTGCTGT
ACCTCCATCGTGTATGCCACGGAGAAGAAGCAGACCAAGGTGGAATTCCCAGAGGCCCGAATCTATGAGGAGACA
CTCAACGTCCTACTCTATGAGACTCCCCGCGTCCCCGACAACTCCTTGTTGGAGGCCACAAGCCGTAGCCGCAGC
CAGGCTTCCCCCAGTGAAGATGAGGAGACCTTTGAACTGCGGGACCGTGTCCGCCGCATCCACGTCAAGCGCTAC
AGCACTTACGATGACCGGCAGCTCGGCCACCAGTCTACCCATCGCGACTGACCAGACCCTCAGGGAGTCAGGGCA
CGGGAGGCCCTATCTCCCATCCTGTGGAACCCGCCCCATTGGCCACCCCATGCTGCTGCTGCCTGGGTCTCTGCT
CTAGCACCCAGAGGCATGACAGGCCCTGCTCAGAGGTCAGAGGGTCTGGGCAGAGGAGGGACCACATTCCCCTGC
CTTGCCCCTGAGCACTTCTGGAGACTGCGTCCTGTCCTATCTGCTCACCATCACCCTTCCTGCCCGACGGAGCTG
CTTCTGCTCCCTGGGGCATATGGACTGACCCACCTCCTGCTGAGAACCTTCCCCTAGGCCCTGTGCAGAAGGCTA
CTGCCCCTTAGGCCTCAGCTGGGGGAAAGGCAGTTCTGGTGCTGTAGAGGCCCTGGTGCAGAAAGTGGGACGTCT
TTTTTCCTAAGGTGTTTAAGCACAGGCTTGATAAGTTTGGTTTTTAAAAAATAATCTAGGAAATGAATAATTCTA
AATCTAGTAATGAGGAAACTGAGCATTTCTTTTGCCCTCCAGGGTGCCAAGACCCTACATATGACAGAACCCTTG
GCCCTTCTCCATGCCTGTGGGATCTGTTTCTTTAAAGCACTTTGTACTGTTATTCAGGAGGTTGATAATCTCCTT
GACCCATGTCTTTCTACCCTAATCCCCACTTCCCTGCAGAATCAATCTGAGGGAGGGGATAAAGAGGAAGCAATA
AAAAAAAAACATCCGACAGAGCAGCTCTGGCTTTGCAGCCTGGCCAGCAGCTCAGAGTGCACCGAGGAGGGAAGG
ATGGCTAAGCTGGGACCGGCAGTCCTCACAGGGTGCCTGTGAGAAAGGACATTTTACCCCCACATCATAGTCACA
TCACTGACTCCTAGGTCTAGCACGACTGCTCTTTGTGATTCTCTTGAGTACCCTTGGCTTCCAGCCATGCTGTCC
TCACATACGGTAAAGCCAAAGAGCTGTCACATGGGCCAGAAACATGAGCCACGGCAGGAAGACCGTGGAGCCCGT
GGGCACTGCATGGTGTTGGCTGGCATGCCCATCAGCTGAGGACAGCAAACTCCCAGCAGCCCCTACAGAGGTGGC
ACATGCTTGGCCACACATCTACTCCCTGCCCACACCATCTATGCTCTTGGTTGGTGCTGGCTGGGATGGCGGTTC
TGCCCAGTGGTGTCTCTGAGCGCGGGATGACAGGAGCAACCGAGCACCCTGAAGGCCTTCACTCCTTGTTGGGT
AACTCAGCCATGGAGATGCCAAGCACTAGCCAGGAGGTGAGTTCCTCTTTAGGGCTTTGGTTTTCATTCCTTTTT
GTTTGGCTTGGCCAAACCAGAATTCAGCTTATCTGAATTATTTTCCAAAGGAATGCTGTCAGGGAGGGACTGTTC
TGCCAGCCTAACAAAGCAACGTAGCCACGTATAGTACCCACTTTCTGCTCTTTGGAGAGAACACAGGTTATCAAG
TTCATCTCTCTTGACTACTCTTATGATAGCTGATGCCACAGAGCCTATGGGCAAATGCCAGACCCAGGGTTAGAC
ACAAGGACCTGAAGTGACATGACGGCGGGACAGGGGAAATGTGACTTTCTAATTAGGCATTTATGTTAGTCACA
GTCTTGAATGTATAAACAGCACTAAGACTCTCAGGTCAGGTACCTTGGTGATCAGCTACTAGTTCTTCCAGCCCT
CATTGAGGTAACAAGATAAAGACAAATCCACTTCTTTGGCCAAATTCAGGCTTTGGCTTTATGACTTTCCCACAG
AGACTGGAATGCGTCAGCCTGAGACCACTGGCCTATTTTCTCAGCTGCCCTCTTGAGGTCCTTTAACACTCAAAT
TCCCAGCTCCCCACTGAGGTGTTGTGATGCTTGCCTTTTGACCTCCCCATCCCCTTTAGTCCCTGCTTACTACTT
TGACATTCACATCCTCAGTGTCTCAGTCTTTTTTGCCGAGAAAGCACAGTAGTCTGGGACTGGGCATTTATCTTC
TCTGACTGAAAATCTCTCCTTGGTCTTAAGGAAAATACTAACATTGAACTCACTGACATGATCTTAGCTTCTTTA
ATCAGACTTTGTGACTTAAAAGTTTGGGGGTTTTCTTTGAAAGTTTCCAGCCCTATTCAGAAAGCAACTCTTGGC
TGTGTGCATTTTTCAACTCCAAGCAGCCCAGGGGTAAGTAAACAAAGTATGGATGAAGGTCAGATTTTCTTGTCA
GTTTCTGAGAAACCTGGCAGCCTGCTGTTAACAACACAGGCCAGTATTGGGTTTTATTGAATTTGGTATGTGACC
AAGGTCGGCCTAAAGGATGGCGCAGGTCCTGGGCAGGAAAGAATTTTTCCTTTATCACATAACTGTAATATTTGG
TTGCTCAGCATAAGTGATGGAAGCAAACACTAATTTCTAATAAAATTGTGTTAAACTC

5161/6881
## FIGURE 4761

CCGCGGGTCGGGCTCTGTGTCAGCAGCCGGGCGGGCGCTCGGGCGGGAC**ATG**GCAGCCTGTACAGCCCGGCGGGC
CCTGGCCGTGGGCAGCCGCTGGTGGTCCCGGTCGCTGACTGGGGCCCGGTGGCCAAGGCCGCTCTGTGCGGCGGC
CGGAGCTGGAGCCTTCTCGCCAGCGTCGACCACGACGACGCGGAGGCACCTCTCGTCCCGAAACCGACCAGAGGG
CAAAGTGTTGGAGACAGTTGGTGTGTTTGAGGTGCCAAAACAGAATGGAAAATATGAGACCGGGCAGCTTTTCCT
TCATAGCATTTTTGGCTACCGAGGTGTCGTCCTGTTTCCCTGGCAGGCCAGACTGTATGACCGGGATGTGGCTTC
TGCAGCTCCAGAAAAAGCAGAGAACCCTGCTGGCCATGGCTCCAAGGAGGTGAAAGGCAAAACTCACACTTACTA
TCAGGTGCTGATTGATGCTCGTGACTGCCCACATATATCTCAGAGATCTCAGACAGAAGCTGTGACCTTCTTGGC
TAACCATGATGACAGTCGGGCCCTCTATGCCATCCCAGGCTTGGACTATGTCAGCCATGAAGACATCCTCCCCTA
CACCTCCACTGATCAGGTTCCCATCCAACATGAACTCTTTGAAAGATTTCTTCTGTATGACCAGACAAAAGCACC
TCCTTTTGTGGCTCGGGAGACGCTAAGGGCCTGGCAAGAGAAGAATCACCCCTGGCTGGAGCTCTCCGATGTTCA
TCGGGAAACAACTGAGAACATACGTGTCACTGTCATCCCCTTCTACATGGGCATGAGGGAAGCCCAGAATTCCCA
CGTGTACTGGTGGCGCTACTGTATCCGTTTGGAGAACCTTGACAGTGATGTGGTACAGCTCCGGGAGCGGCACTG
GAGGATATTCAGTCTCTCTGGCACCTTGGAGACAGTGCGAGGCCGAGGGGTAGTGGGCAGGGAACCAGTGTTATC
CAAGGAGCAGCCTGCGTTCCAGTATAGCAGCCACGTCTCACTGCAGGCTTCCAGTGGGCACATGTGGGGCACGTT
CCGCTTTGAAAGACCTGATGGCTCCCACTTTGATGTTCGGATTCCTCCCTTCTCCCTGGAAAGCAATAAAGATGA
GAAGACACCACCCTCAGGCCTTCACTGG**TAG**GCCAGCTGAGGCCCCAAGTGCCCAGGCTTGGTCACCGGGAAGAA
CAACTCTCATCCCACAATTGCTGCAGAACTCTTCTCTCCCCATCATGGGCCACAGTGGGTCTCTTAATTTGATTG
TGGGGTTCTTTTTGTGGGGAGGGGTGGTATAACTTTTCTTCAGAAGACCCATGTGGGACACCTCCAAGGCTGGCC
TCCTCATAAGCCCTGCCTACACCATGTTCCAGTAAACCTCTCCACCAAGGAACTGTGTTCAGCTGCCACAGGCCT
GGAGGAGTTTCCTGGCCTGTCACGTGAGGTTTGATCAGTAAACCAGTGCACGCTTGGCCACCCTTGCCATTTCTG
CTCCCAGAGTCTCAGGCTCCCCTTCTGACCCAGTGTGCGCCCTTGACTGCTTTCTTTGCTGCCCTTCCAGGGAGC
TGCCCCCCTGGTAGGGCATGTGCCTGTTTCCCTCTCAGCCTGGAGGCTGGCTGGACATCTCCTAGGGTCACTGTG
CCTCTCAGCTAGTTGGCGGGGGTGCTGGACTGGACTCTTGTTCACTTTACCTTCTGCCAAATGCAGAGAGGGAGG
CCAGTGTCAGGGTCGGAGTGGCCTGGCTCTTAGCACTGACCGACCATTGCCATTTCTGGCCTCGCTAGGCCCAGG
AGAGGAGGGAGGCAAGCCAGTCGGGTTCCTGGAGCAATGGGTGTGCCAGCCCTCAGCATGACTCTGCCAAGCAT
CCAGACCACAAATGCAGGAATTTGGCTGAGGAGCAGCTTTAGGTATGGATTGATGACTAAGTCAAGCTACTTCCT
GAGCTTCTCTCAGATTTCCAAGAGCCAGAGATGAATTGTGCTGCATCTTGCCCCAATTCTTAGGATTTCTTTTCC
TCCGCCACTGCAGTGATTGTTAGAGGTAGTTTTCTTGAATTAATATTAAATCACAGTTCCAGCCCTGTAAAAAAA

5162/6881
# FIGURE 4762

MAACTARRALAVGSRWWSRSLTGARWPRPLCAAAGAGAFSPASTTTTRRHLSSRNRPEGKVLETVGVFEVPKQNG
KYETGQLFLHSIFGYRGVVLFPWQARLYDRDVASAAPEKAENPAGHGSKEVKGKTHTYYQVLIDARDCPHISQRS
QTEAVTFLANHDDSRALYAIPGLDYVSHEDILPYTSTDQVPIQHELFERFLLYDQTKAPPFVARETLRAWQEKNH
PWLELSDVHRETTENIRVTVIPFYMGMREAQNSHVYWWRYCIRLENLDSDVVQLRERHWRIFSLSGTLETVRGRG
VVGREPVLSKEQPAFQYSSHVSLQASSGHMWGTFRFERPDGSHFDVRIPPFSLESNKDEKTPPSGLHW

5163/6881
# FIGURE 4763

CAATCATGGATCAATAGCTATGTTTGGAGAAGGAATTTGTGGCTGCTCCAGCTACTGGGCATTTTGTCTGGTCCA
GTTCATGTAATCTCCCAACACCCCATGAAGCAAGGCTTTGTTAATCCTATTTTACTGAAAATGAACTAAGACTCA
GAGAGATAAAGCTGTTGCCCAATGAGCCTTCTTTCTGCCCTCCAGATCCACGGTGCTAATTCCCCTTCCGATGAC
CTAATGATTCTGAGCTTGGCAAAGGTCTTATCTCCCAGCTCGCCCAGGCCCAGTGTTCCAGGAATGTGACCTTTG
CTGCAGCAGCCGCTGGAGGGGGCAGAGGGGATGGGCTGGAGGTTGAGCAAACAGAGCAGCAGAAAAGGCAGTTCC
TCTTCTCCAGTGCCCTCCTTCCCTGTCTCTGCCTCTCCCTCCCTTCCTCAGGCATCAGAGCGGAGACTTCAGGGA
GACCAGAGCCCAGCTTGCCAGGCACTGAGCTAGAAGCCCTGCC**ATG**GCACCCCTGAGACCCCTTCTCATACTGGC
CCTGCTGGCATGGGTTGCTCTGGCTGACCAAGAGTCATGCAAGGGCCGCTGCACTGAGGGCTTCAACGTGGACAA
GAAGTGCCAGTGTGACGAGCTCTGCTCTTACTACCAGAGCTGCTGCACAGACTATACGGCTGAGTGCAAGCCCCA
AGTGACTCGCGGGGATGTGTTCACTATGCCGGAGGATGAGTACACGGTCTATGACGATGGCGAGGAGAAAAACAA
TGCCACTGTCCATGAACAGGTGGGGGGCCCCTCCCTGACCTCTGACCTCCAGGCCCAGTCCAAAGGGAATCCTGA
GCAGACACCTGTTCTGAAACCTGAGGAAGAGGCCCCTGCGCCTGAGGTGGGCGCCTCTAAGCCTGAGGGGATAGA
CTCAAGGCCTGAGACCCTTCATCCAGGGAGACCTCAGCCCCCAGCAGAGGAGGAGCTGTGCAGTGGGAAGCCCTT
CGACGCCTTCACCGACCTCAAGAACGGTTCCCTCTTTGCCTTCCGAGGGCAGTACTGCTATGAACTGGACGAAAA
GGCAGTGAGGCCTGGGTACCCCAAGCTCATCCGAGATGTCTGGGGCATCGAGGGCCCCATCGATGCCGCCTTCAC
CCGCATCAACTGTCAGGGGAAGACCTACCTCTTCAAGGGTAGTCAGTACTGGCGCTTTGAGGATGGTGTCCTGGA
CCCTGATTACCCCCGAAATATCTCTGACGGCTTCGATGGCATCCCGGACAACGTGGATGCAGCCTTGGCCCTCCC
TGCCCATAGCTACAGTGGCCGGGAGCGGGTCTACTTCTTCAAGGGGAAACAGTACTGGGAGTACCAGTTCCAGCA
CCAGCCCAGTCAGGAGGAGTGTGAAGGCAGCTCCCTGTCGGCTGTGTTTGAACACTTTGCCATGATGCAGCGGGA
CAGCTGGGAGGACATCTTCGAGCTTCTCTTCTGGGGCAGAACCTCTGCTGGTACCAGACAGCCCCAGTTCATTAG
CCGGGACTGGCACGGTGTGCCAGGGCAAGTGGACGCAGCCATGGCTGGCCGCATCTACATCTCAGGCATGGCACC
CCGCCCCTCCTTGGCCAAGAAACAAAGGTTTAGGCATCGCAACCGCAAAGGCTACCGTTCACAACGAGGCCACAG
CCGTGGCCGCAACCAGAACTCCCGCCGGCCATCCCGCGCCATGTGGCTGTCCTTGTTCTCCAGTGAGGAGAGCAA
CTTGGGAGCCAACAACTATGATGACTACAGGATGGACTGGCTTGTGCCTGCCACCTGTGAACCCATCCAGAGTGT
CTTCTTCTTCTCTGGAGACAAGTACTACCGAGTCAATCTTCGCACACGGCGAGTGGACACTGTGGACCCTCCCTA
CCCACGCTCCATCGCTCAGTACTGGCTGGGCTGCCCAGCTCCTGGCCATCTG**TAG**GAGTCAGAGCCCACATGGCC
GGGCCCTCTGTAGCTCCCTCCTCCCATCTCCTTCCCCCAGCCCAATAAAGGTCCCTTAGCCCCGAGTTTAAA

# FIGURE 4764

MAPLRPLLILALLAWVALADQESCKGRCTEGFNVDKKCQCDELCSYYQSCCTDYTAECKPQVTRGDVFTMPEDEY
TVYDDGEEKNNATVHEQVGGPSLTSDLQAQSKGNPEQTPVLKPEEEAPAPEVGASKPEGIDSRPETLHPGRPQPP
AEEELCSGKPFDAFTDLKNGSLFAFRGQYCYELDEKAVRPGYPKLIRDVWGIEGPIDAAFTRINCQGKTYLFKGS
QYWRFEDGVLDPDYPRNISDGFDGIPDNVDAALALPAHSYSGRERVYFFKGKQYWEYQFQHQPSQEECEGSSLSA
VFEHFAMMQRDSWEDIFELLFWGRTSAGTRQPQFISRDWHGVPGQVDAAMAGRIYISGMAPRPSLAKKQRFRHRN
RKGYRSQRGHSRGRNQNSRRPSRAMWLSLFSSEESNLGANNYDDYRMDWLVPATCEPIQSVFFFSGDKYYRVNLR
TRRVDTVDPPYPRSIAQYWLGCPAPGHL

# FIGURE 4765A

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ACAGACGGCGGGTGAACATGGCGTCCTCGACTTGGTCTGAGACGTGATAGGCCTGCCTTCTGGTTGAAGATGTGG
CGAGTGAAAAAACTGAGCCTCAGCCTGTCGCCTTCGCCCCAGACGGGAAAACCATCTATGAGAACTCCTCTCCGT
GAACTTACCCTGCAGCCCGGTGCCCTCACCAACTCTGGAAAAAGATCCCCCGCTTGCTCCTCGCTGACCCCATCA
CTGTGCAAGCTGGGGCTGCAGGAAGGCAGCAACAACTCATCTCCAGTGGATTTTGTAAATAACAAGAGGACAGAC
TTATCTTCAGAACATTTCAGTCATTCCTCAAAGTGGCTAGAAACTTGTCAGCATGAATCAGATGAGCAGCCTCTA
GATCCAATTCCCCAAATTAGCTCTACTCCTAAAACGTCTGAGGAAGCAGTAGACCCACTGGGCAATTATATGGTT
AAAACCATCGTCCTTGTACCATCTCCACTGGGGCAGCAACAAGACATGATATTTGAGGCCCGTTTAGATACCATG
GCAGAGACAAACAGCATATCTTTAAATGGACCTTTGAGAACAGACGATCTGGTGAGAGAGGAGGTGGCACCCTGC
ATGGGAGACAGGTTTTCAGAAGTTGCTGCTGTATCTGAGAAACCTATCTTTCAGGAATCTCCGTCCCATCTCTTA
GAGGAGTCTCCACCAAATCCCTGTTCTGAACAACTACATTGCTCCAAGGAAAGCCTGAGCAGTAGAACTGAGGCT
GTGCGTGAGGACTTAGTACCTTCTGAAAGTAACGCCTTCTTGCCTTCCTCTGTTCTCTGGCTTTCCCCTTCAACT
GCCTTGGCAGCAGATTTCCGTGTCAATCATGTGGACCCAGAGGAGGAAATTGTAGAGCATGGAGCTATGGAGGAA
AGAGAAATGAGGTTTCCCACACATCCTAAGGAGTCTGAAACAGAAGATCAAGCACTTGTCTCAAGTGTGGAAGAT
ATTCTGTCCACATGCCTGACACCAAATCTAGTAGAAATGGAATCCCAAGAAGCTCCAGGCCCAGCAGTAGAAGAT
GTTGGTAGGATTCTTGGCTCTGATACAGAGTCTTGGATGTCCCCACTGGCCTGGCTGGAAAAAGGTGTAAATACC
TCCGTCATGCTGGAAAATCTCCGCCAAAGCTTATCCCTTCCCTCGATGCTTCGGGATGCTGCAATTGGCACTACC
CCTTTCTCTACTTGCTCGGTGGGGACTTGGTTTACTCCTTCAGCACCACAGGAAAAGAGTACAAACACATCCCAG
ACAGGCCTGGTTGGCACCAAGCACAGTACTTCTGAGACAGAGCAGCTCCTGTGTGGCCGGCCTCCAGATCTGACT
GCCTTGTCTCGACATGACTTGGAAGATAACCTGCTGAGCTCTCTTGTCATTCTGGAGGTTCTCTCCCGCCAGCTT
CGGGACTGGAAGAGCCAGCTGGCTGTCCCTCACCCAGAAACCCAGGACAGTAGCACACAGACTGACACATCTCAC
AGTGGGATAACTAATAAACTTCAGCATCTTAAGGAGAGCCATGAGATGGGACAGGCCCTACAGCAGGCCAGAAAT
GTCATGCAATCATGGGTGCTTATCTCTAAAGAGCTGATATCCTTGCTTCACCTATCCCTGTTGCATTTAGAAGAA
GATAAGACTACTGTGAGTCAGGAGTCTCGGCGTGCAGAAACATTGGTCTGTTGCTGTTTTGATTTGCTGAAGAAA
TTGAGGGCAAAGCTCCAGAGCCTCAAAGCAGAAAGGGAGGAGGCAAGGCACAGAGAGGAAATGGCTCTCAGAGGC
AAGGATGCGGCAGAGATAGTGTTGGAGGCTTTCTGTGCACACGCCAGCCAGCGCATCAGCCAGCTGGAACAGGAC
CTAGCATCCATGCGGGAATTCAGAGGCCTTCTGAAGGATGCCCAGACCCAACTGGTAGGGCTTCATGCCAAGCAA
GAAGAGCTGGTTCAGCAGACAGTGAGTCTTACTTCTACCTTGCAACAAGACTGGAGGTCCATGCAACTGGATTAT
ACAACATGGACAGCTTTGCTGAGTCGGTCCCGACAACTCACAGAGAAACTCACAGTCAAGAGCCAGCAAGCCCTG
CAGGAACGTGATGTGGCAATTGAGGAAAAGCAGGAGGTTTCTAGGGTGCTGGAACAAGTCTCTGCCCAGTTAGAG
GAGTGCAAAGGCCAAACAGAACAACTGGAGTTGGAAAACAGTCGTCTAGCAACAGATCTCCGGGCTCAGTTGCAG
ATTCTGGCCAACATGGACAGCCAGCTAAAAGAGCTACAGAGTCAGCATACCCATTGTGCCCAGGACCTGGCTATG
AAGGATGAGTTACTCTGCCAGCTTACCCAGAGCAATGAGGAGCAGGCTGCTCAXXXXXXXXXXXXGAAGAGATGGCA
CTAAAACACATGCAGGCAGAACTGCAGCAGCAACAAGCTGTCCTGGCCAAAGAGGTGCGGGACCTGAAAGAGACC
TTGGAGTTTGCAGACCAGGAGAATCAGGTTGCTCACCTGGAGCTGGGTCAGGTTGAGTGTCAATTGAAAACCACA
CTGGAAGTGCTCCGGGAGCGCAGCTTGCAGTGTGAGAACCTCAAGGACACTGTAGAGAACCTAACGGCTAAACTG
GCCAGCACCATAGCAGATAACCAGGAGCAAGATCTGGAGAAAACACGGCAGTACTCTCAAAAGCTAGGGCTGCTG
ACTGAGCAACTACAGAGCCTGACTCTCTTTCTACAGACAAAACTAAAGGAGAAGACTGAACAAGAGACCCTTCTG
CTGAGTACAGCCTGTCCTCCCACCCAGGAACACCCTCTGCCTAATGACAGGACCTTCCTGGGAAGCATCTTGACA
GCAGTGGCAGATGAAGAGCCAGAATCAACTCCTGTGCCCTTGCTTGGAAGTGACAAGAGTGCTTTCACCCGAGTA
GCATCAATGGTTTCCCTTCAGCCCGCAGAGACCCCAGGCATGGAGGAGAGCCTGGCAGAAATGAGTATTATGACT
ACTGAGCTTCAGAGTCTTTGTTCCCTGCTACAAGAGTCTAAAGAAGAAGCCATCAGGACTCTGCAGCGAAAAATT
TGTGAGCTGCAAGCTAGGCTGCAGGCCCAGGAAGAACAGCATCAGGAAGTCCAGAAGGCAAAAGAAGCAGACATA
GAGAAGCTGAACCAGGCCTTGTGCTTGCGCTACAAGAATGAAAAGGAGCTCCAGGAAGTGATACAGCAGCAGAAT
GAGAAGATCCTAGAACAGATAGACAAGAGTGGCGAGCTCATAAGCCTTAGAGAGGAGGTGACCCACCTTACCCGC
TCACTTCGGCGTGCGGAGACAGAGACCAAAGTGCTCCAGGAGGCCCTGGCAGGCCAGCTGGACTCCAACTGCCAG
CCTATGGCCACCAATTGGATCCAGGAGAAAGTGTGGCTCTCTCAGGAGGTGGACAAACTGAGAGTGATGTTCCTG
GAGATGAAAAATGAGAAGGAAAAACTCATGATCAAGTTCCAGAGCCATAGAAATATCCTAGAGGAGAACCTTCGG
CGCTCTGACAAGGAGTTAGAAAAAACTAGATGACATTGTTCAGCATATTTATAAGACCCTGCTCTCTATTCCAGAG
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5166/6881

# FIGURE 4765B

GTGGTGAGGGGATGCAAAGAACTACAGGGATTGCTGGAATTTCTGAGCTAAGAAACTGAAAGCCAGAATCTGCTT
CACCTCTTTTTACCTGCAATACCCCCTTACCCCAATACCAAGACCAACTGGCATAGAGCCAACTGAGATAAATGC
TATTTAAATAAAGTGTATTTAATG

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# FIGURE 4766

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MWRVKKLSLSLSPSPQTGKPSMRTPLRELTLQPGALTNSGKRSPACSSLTPSLCKLGLQEGSNNSSPVDFVNNKR
TDLSSEHFSHSSKWLETCQHESDEQPLDPIPQISSTPKTSEEAVDPLGNYMVKTIVLVPSPLGQQQDMIFEARLD
TMAETNSISLNGPLRTDDLVREEVAPCMGDRFSEVAAVSEKPIFQESPSHLLEESPPNPCSEQLHCSKESLSSRT
EAVREDLVPSESNAFLPSSVLWLSPSTALAADFRVNHVDPEEEIVEHGAMEEREMRFPTHPKESETEDQALVSSV
EDILSTCLTPNLVEMESQEAPGPAVEDVGRILGSDTESWMSPLAWLEKGVNTSVMLENLRQSLSLPSMLRDAAIG
TTPFSTCSVGTWFTPSAPQEKSTNTSQTGLVGTKHSTSETEQLLCGRPPDLTALSRHDLEDNLLSSLVILEVLSR
QLRDWKSQLAVPHPETQDSSTQTDTSHSGITNKLQHLKESHEMGQALQQARNVMQSWVLISKELISLLHLSLLHL
EEDKTTVSQESRRAETLVCCCFDLLKKLRAKLQSLKAEREEARHREEMALRGKDAAEIVLEAFCAHASQRISQLE
QDLASMREFRGLLKDAQTQLVGLHAKQEELVQQTVSLTSTLQQDWRSMQLDYTTWTALLSRSRQLTEKLTVKSQQ
ALQERDVAIEEKQEVSRVLEQVSAQLEECKGQTEQLELENSRLATDLRAQLQILANMDSQLKELQSQHTHCAQDL
AMKDELLCQLTQSNEEQAAQWQKEEMALKHMQAELQQQQAVLAKEVRDLKETLEFADQENQVAHLELGQVECQLK
TTLEVLRERSLQCENLKDTVENLTAKLASTIADNQEQDLEKTRQYSQKLGLLTEQLQSLTLFLQTKLKEKTEQET
LLLSTACPPTQEHPLPNDRTFLGSILTAVADEEPESTPVPLLGSDKSAFTRVASMVSLQPAETPGMEESLAEMSI
MTTELQSLCSLLQESKEEAIRTLQRKICELQARLQAQEEQHQEVQKAKEADIEKLNQALCLRYKNEKELQEVIQQ
QNEKILEQIDKSGELISLREEVTHLTRSLRRAETETKVLQEALAGQLDSNCQPMATNWIQEKVWLSQEVDKLRVM
FLEMKNEKEKLMIKFQSHRNILEENLRRSDKELEKLDDIVQHIYKTLLSIPEVVRGCKELQGLLEFLS
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5168/6881
# FIGURE 4767

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CCTTTGCCTTTGAGGCTCTGTGGCTGTGGGGCTGAGTGGCATCATGGCGGCTCAGAAAGATCTCTGGGACGCCAT
TGTGATTGGGGCGGGGATCCAGGGCTGCTTCACTGCATACCACCTGGCCAAACACAGGAAGAGGATCCTCCTGCT
GGAGCAGTTCTTTCTACCACACTCCCGAGGAAGCTCCCATGGACAAAGCCGGATAATCCGAAAGGCGTACCTGGA
AGACTTTTACACCCGGATGATGCATGAGTGCTATCAGATATGGGCCCAGCTGGAGCACGAGGCTGGAACCCAATT
GCACAGGCAGACTGGATTACTGCTGCTGGGAATGAAAGAGAATCAAGAATTAAAGACAATCCAGGCCAATCTGTC
GAGGCAGAGGGTAGAACACCAGTGTCTTTCATCTGAGGAACTGAAGCAACGTTTCCCAAATATTCGGTTGCCCAG
GGGAGAAGTGGGGCTCTTGGACAATTCCGGAGGAGTTATCTATGCATATAAGGCCCTCAGAGCCCTGCAGGATGC
AATTCGACAGCTAGGAGGCATAGTGCGTGACGGAGAGAAGGTGGTGGAGATAAACCCAGGGCTACTGGTCACGGT
GAAAACCACCTCCAGGAGCTACCAAGCTAAGAGCTTGGTCATCACAGCAGGTCCTTGGACCAACCAGCTCCTCCG
TCCCCTGGGCATTGAGATGCCTCTCCAGACCCTGCGGATCAACGTGTGTTACTGGCGAGAGATGGTTCCTGGGAG
CTATGGTGTGTCCCAGGCCTTTCCGTGCTTCCTGTGGCTGGGCTTGTGTCCCCACCACATCTACGGACTGCCCAC
AGGAGAGTACCCAGGGCTGATGAAGGTCAGCTATCACCACGGCAACCACGCAGACCCTGAGGAGCGGGACTGCCC
CACAGCACGCACAGACATCGGAGACGTCCAGATCCTGAGCAGCTTTGTCAGAGATCACTTACCTGATCTGAAGCC
CGAGCCTGCTGTCATTGAGAGCTGCATGTACACGAATACCCCTGATGAGCAGTTCATTCTCGATCGCCACCCAAA
GTATGACAACATTGTCATTGGTGCTGGATTCTCTGGGCACGGGTTCAAGCTGGCCCCTGTGGTGGGGAAGATCCT
GTATGAATTAAGCATGAAATTAACACCATCTTATGACTTGGCACCTTTTCGAATCAGCCGTTCCCAAGCCTGGG
CAAAGCCCACCTTTGACCTCTGGCCAGAAGCCTCCCTTCTGTGCACAGGAGCCAGTTTCACAGATGGAGAAGATG
TCTCAGATGAAGGGAGTGTCCCTGAGATATCATCCTTTTCTTCTGCCTCGCCTGAATCCCCCATAAACACCAGAT
GATTGAGTCTACCTTCTTTCCTTGGCCCGCTCCCTTTTTCTTCTGCCTCACTTGAATCCCCCGTAAACACCAGAC
GATTGAGTCTACCTTCTTTTCTTGGCCACCTCCCCATTCACAACTACTTTCTCGCTCCCAGAAGGTTGATCAGAT
ATTCTACAATCACAGAGTAGCAAGGACGTTTGAGATGGGTATATCAGTAAGAAGAGGGCACAAGAACTGGCTCTG
GAGACCAAAGCAGTTGTTAAAAATTCTCTTTGCTGGGGGCCGGGTGTGGTGGCTCACACCTGTAATCTCGGCACT
TTGGGGGGCTGAGACAGGCGGATCACCTGAGGCCAGGAATTCAAGACCAGCCTGGCCAACATGGTGAAACCCTAT
CTCCACTAAAAATACAAAATTAGCTGGGTGTGGTGGCGCATGCCTGTAATCCCAGCTACTTGGGAGACTGAGGCA
AGAGAATCACTTGAACCCGGGAGGTGGAGGTGGCAGTGAGCCGAGATTGCGCCATTGCACTCCAGCCTGGGCAAA
AAGAGTGAGACTCTGTCTCAAAAAAAAAAACAAAACAAAAAAAACCTCTTTGCTGGTATATTTGAAGAGCTTGGGA
TGGATTTGACTAAATCTGCCCCGAGGAGGGTGAACAAGGTGATCTCAGAGATCACTACTGCTCTTGGAGTTCCTT
CTCCTAAAGCTAAGGCCAGCCTCCATCACAAATGCCCATAAAATCTGGCTCGTCTTTGATGAACAATAAATATTT
GTTGAACAAATAAATAACTGCCCTGC
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5169/6881
# FIGURE 4768

GCTTGACCACTATGCTATCATCAAGTTTCCGCTGACCACTGAGTCTGCCATGAAGAAGATAGAAGACAACAACAC
ACTTGTGTTCATTGTGGATGTTAAAGCCAACAAGCACCAGATTAAACAGGCTGTGAAGAAGCTGTATGACATTGA
TGTGGCCAAGGTCAACACCCTGATTCGGCCTGATGGAGAGAAGAAGGCATATGTTCGACTGGCTCCTGATTACGA
TGCTTTGGATGTTGCCAACAAAGTAAGTTTCCTTCCTACAAACCCCTTAATGCTCACCCCTTGGGTGCAAATGAT
GCATATGTTAGCGACCAAAGCCTGATCTTTGCTGATTAGTCATAATTAACTGACTGCACCCCTATCCTTGACAAA
CCTTATCCTCACATTCCTCATTTTGCTTT

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# FIGURE 4769

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TCAGTGAAGGAGTCTTCAAGTGCCCTGAGGACCAGCTTCCTCTGGACTATGCCAAGATCTACCCAGACCCGGAGC
TGGAAGTACAAGTATTGGGCCTGCCTATCCGCTGCATCCACAGTGAGGAGGGCTGCCGCTGGAGTGGGCCACTAC
GTCATCTACAGGGCCACCTGAATACCTGCAGCTTCAATGTCATTCCCTGCCCTAATCGCTGCCCCATGAAGCTGA
GCCGCCGTGATCTACCTGCACACTTGCAGCATGACTGCCCCAAGCGGCGCCTCAAGTGCGAGTTTTGTGGCTGTG
ACTTCAGTGGGGAGGCCTATGAGAGCCATGAGGGTATGTGCCCCCAGGAGAGTGTCTACTGTGAGAATAAGTGTG
GTGCCCGCATGATGCGGCGGCTGCTGGCCCAGCATGCCACCTCTGAGTGCCCCAAGCGCACTCAGCCCTGCACCT
ACTGCACTAAGGAGTTCGTCTTTGACACCATCCAGAGCCACCAGTACCAGTGCCCAAGGCTGCCTGTTGCCTGCC
CCAACCAATGTGGTGTGGGCACTGTGGCTCGGGAGGACCTGCCAGGCCATCTGAAGGACAGCTGTAACACCGCCC
TGGTGCTCTGCCCATTCAAAGACTCCGGCTGCAAGCACAGGTGCCCTAAGCTGGCAATGGCACGGCATGTGGAGG
AGAGTGTGAAGCCACATCTGGCCATGATGTGTGCCCTGGTGAGCCGGCAACGGCAGGAGCTGCAGGAGCTTCGGC
GAGAGCTGGAGGAGCTATCAGTGGGCAGTGATGGCGTGCTCATCTGGAAGATTGGCAGCTATGGACGGCGGCTAC
AGGAGGCCAAGGCCAAGCCCAACCTTGAGTGCTTCAGCCCAGCCTTCTACACACATAAGTATGGTTACAAGCTGC
AGGTGTCTGCATTCCTCAATGGCAATGGCAGTGGTGAGGGCACACACCTCTCACTGTACATTCGTGTGCTGCCTG
GTGCCTTTGACAATCTCCTTGAGTGGCCCTTTGCCCGCCGTGTCACCTTCTCCCTGCTGGATCAGAGCGACCCTG
GGCTGGCTAAACCACAGCACGTCACTGAGACCTTCCACCCCGACCCAAACTGGAAGAATTTCCAGAAGCCAGGCA
CGTGGCGGGGCTCCCTGGATGAGAGTTCTCTGGGCTTTGGTTATCCCAAGTTCATCTCCCACCAGGACATTCGAA
AGCGAAACTATGTGCGGGATGATGCAGTCTTCATCCGTGCTGCTGTTGAACTGCCCCGGAAGATCCTCAGCTGAG
TGCAGGTGGGGTTCGAGGGGAAAGGACGATGGGCATGACCTCAGTCAGGCACTGGCTGAACTTGGAGAGGGGGC
CGGACCCCCGTCAGCTGCTTCTGCTGCCTAGGTTCTGTTACCCCATCCTCCCTCCCCCAGCCACCACCCTCAGGT
GCCTCCAATTGGTGCTTCAGCCCTGGCCCCTGTGGGGAACAGGTCTTGGGGTCATGAAGGGCTGGAAACAAGTGA
CCCCAGGGCCTGTCTCCCTTCTTGGGTAGGGCAGACATGCCTTGGTGCCGGTCACACTCTACACGGACTGAGGTG
CCTGCTCAGGTGCTATGTCCCAAGAGCCATAAGGGGGTGGGAATTGGGGAGGGAGAAAGGGTAGTTCAAAGAGTC
TGTCTTGAGATCTGATTTTTTCCCCCTTTACCTAGCTGTGCCCCCTCTGGTTATTTATTTCCTTAGTGCCAGGAG
GGCACAGCAGGGGAGCCCTGATTTTTAATAAATCCGGAATTGTATTTATT
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# FIGURE 4770

MPGFDYKFLEKPKRRLLCPLCGKPMREPVQVSTCGHRFCDTCLQEFLSEGVFKCPEDQLPLDYAKIYPDPELEVQ
VLGLPIRCIHSEEGCRWSGPLRHLQGHLNTCSFNVIPCPNRCPMKLSRRDLPAHLQHDCPKRRLKCEFCGCDFSG
EAYESHEGMCPQESVYCENKCGARMMRRLLAQHATSECPKRTQPCTYCXLXXSSSLTPSRATSTSAQGCLLPAPT
NVVWALWLGRTCQAI

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# FIGURE 4771

GAGACTCGCCCGGCTCAACCCCGACGTCCGCGCCCCGGCCGCCTGTTGGCC**ATG**GCGGGCCTGGGCCTGGGCTCC
GCCGTTCCCGTGTGGCTGGCCGAGGACGACCTCGGCTGCATCATCTGCCAGGGGCTGCTGGACTGGCCCGCCACG
CTGCCCTGCGGCCACAGCTTCTGCCGCCACTGCCTGGAGGCCCTGTGGGGCGCCCGCGACGCCCGCCGCTGGGCC
TGCCCCACTTGCCGCCAGGGCGCCGCGCAGCAGCCGCACCTGCGGAAGAACACGCTACTGCAGGACCTGGCCGAC
AAGTACCGCCGCGCCGCACGCGAGATACAGGCGGGCTCCGACCCTGCCCACTGCCCCTGCCCGGGCTCCAGTTCC
CTCTCCAGCGCGGCCGCGAGGCCCCGGCGCCGCCCGGAACTGCAGCGGGTGGCAGTAGAGAAGAGCATCACAGAA
GTTGCTCAGGAGCTGACAGAGCTGGTGGAACATCTTGTAGACATTGTCAGAAGCCTGCAGAATCAGAGGCCCCTA
TCAGAATCTGGACCAGACAACGAACTGAGCATCCTGGGCAAGGAGAACTCCTGGAAGCCCCGTCTTCCTCCTCAT
GCCCATTGCCTGACCAGAGCCACCCTGCACTCAGGAGAGCTTCTCGGTTTGCTCAGTGGGCCATCCATCCAACCT
TTAACT**TGA**AGAGCCTTTCCTGCAGCCTGGAGGTGTCCAAGGATTCCCGTACAGTGACTGTGTCTCACCGCCCAC
AACCCTATCGCTGGAGCTGTGAGAGGTTTTCTACCAGCCAGGTCTTATGTTCCCAGGCCCTGTCTTCTGGAAAGC
ATTACTGGGAAGTGGACACTAGGAATTGCAGCCACTGGGCAGTTGGGGTGGCTTCCTGGGAGATGAGCCGCGACC
AGGTCCTGGGAAGGACTATGGACTCTTGTTGTGTGGAATGGAAGGGGACTAGCCAGCTCTCTGCATGGCACATGG
TCAAGGAAACTGTCCTTGGCTCAGACAGACCTGGGGTGGTGGGCATCTGGCTGAACCTTGAGGAGGGAAAGCTTG
CCTTCTATTCAGTGGACAATCAGGAGAAGCTTCTGTATGAGTGTACCATCTCTGCCTCCTCTCCTTTGTACCCTG
CCTTCTGGCTGTATGGCTTACATCCTGGAAATTACCTGATAATAAAGCAAGTAAAGGTGTAAGGTTTCCTAAGGG
ATTACAACACAGTGGTTTCCTGGTCTCTCTCCCTGTCATCAATCAGGGTAGTAACTTGACTTAAGAATACCACTT
TTTAGAAAAATTACGATAGAGATGGGATCTCACTAGGTTGCCCAGGCTGGTGTCGAATTCCTGGTCTCAAGCAGT
CCTCCCACCTCAGCCTCCCAAGGTGCTGGGATTACAGGTGTGAGCCACCACACCTGGCCAAGAATACCACTTTTG
AAGTTAATCCTTTTGTGTGATACAGGATGAACTTGGGATGTTTGAACCCTGGACATTCCAAATAAAGAATAGGCC
CCTGCCTGGCTCCTGGGAGATAACCTCTAAGCCATTAGAATATCTTGCCTGATAAGAGTGTTTTTGTTTACCTGT
GGGCCTTGGGCCATGCAGTATCAGCTTGACCTTGCAAGGTCAAGCTGAGGAGACTAAGTTAGCCATGTGGGCAGT
GAAGCATGCCAATGTGATCAATCCCTAGTAAAAGCCCTGGACACCTAGGCATGGGTGAGCTACTCTGGTTGGTAA
TACTCTGTGCACACATCATTGTAGCCACACATCATTGCTGGGAGAATTAAGCATTATCCTGAAGACTCTGCCAGG
AGAGGATAATTGGAAGTTCTCTTGGACCTTACCTTATGTGCCTTTCTTCATTGCTGATTTTAATCTGTATCCTTT
CACTGTAATAAACTGTAACTATGAGTGCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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# FIGURE 4772

MAGLGLGSAVPVWLAEDDLGCIICQGLLDWPATLPCGHSFCRHCLEALWGARDARRWACPTCRQGAAQQPHLRKN
TLLQDLADKYRRAAREIQAGSDPAHCPCPGSSSLSSAAARPRRRPELQRVAVEKSITEVAQELTELVEHLVDIVR
SLQNQRPLSESGPDNELSILGKENSWKPRLPPHAHCLTRATLHSGELLGLLSGPSIQPLT

# FIGURE 4773A

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AGGTGGAAAAACTTGTGAAATATTTGGATCCCAACGACCTGGGGAGAATCAACTTCAAGGACTTTTGCCGGGGGG
TGTTCGCCATGAAAGGGTGCGAGGAGCTGCTGAAGGATGTGCTGTCGGTGGAGAGCGCGGGGACGCTGCCGTGCG
CGCCAGAGATCCCAGACTGCGTGGAGCAGGGCAGCGAGGTCACAGGCCCCACCTTTGCTGATGGCGAGCTCATCC
CCAGGGAACCCGGCTTTTTTCCCGAGGACGAGGAGGAGGCTATGACGCTGGCGCCACCTGAGGGCCCCCAGGAGT
TGTACACAGACAGCCCCATGGAGAGCACTCAGAGCCTGGAGGGGTCTGTCGGGAGTCCTGCCGAGAAGGACGGGG
GACTTGGGGGCCTGTTTCTGCCAGAAGACAAGTCCCTGGTCCACACTCCATCCATGACGACCTCAGACCTTTCTA
CACACTCCACCACCTCGCTCATCAGCAATGAGGAGCAGTTTGAAGACTATGGGGAGGGTGACGATGTGGACTGTG
CCCCCAGCAGCCCTTGCCCCGATGATGAGACCAGGACCAACGTCTACTCGGACCTGGGGTCTTCGGTGTCTTCCA
GTGCGGGGCAGACGCCTAGGAAAATGCGGCACGTGTACAACAGCGAATTGCTAGATGTTTACTGCTCTCAATGCT
GCAAGAAAATCAACCTGCTCAATGACTTGGAAGCCCGACTGAAAAACCTGAAGGCCAACAGCCCCAACCGAAAGA
TCTCCAGCACGGCCTTTGGACGGCAGCTCATGCACAGCAGCAACTTCAGCAGCAGCAATGGCAGCACCGAAGACC
TGTTCCGGGACAGCATTGACTCTTGCGACAATGACATCACAGAGAAGGTAAGCTTCCTGGAAAAGAAGGTGACAG
AGCTGGAGAATGACAGCCTGACCAATGGGGACCTGAAGAGCAAGCTGAAGCAAGAGAACACACAGCTGGTGCACA
GGGTGCATGAGCTGGAGGAGATGGTGAAGGATCAGGAGACCACGGCCGAGCAGGCTCTGGAGGAGGAGGCGCGGC
GCCACCGCGAGGCCTACGGCAAGCTGGAGAGGGAGAAGGCTACCGAGGTGGAGCTGCTCAATGCCAGGGTGCAGC
AGTTGGAGGAAGAAAATACAGAGCTTAGAACAACAGTGACTCGGCTCAAGTCTCAAACAGAGAAACTGGATGAGG
AGCGGCAGCGCATGTCTGACCGTCTGGAGGACACCAGCCTGCGGCTCAAAGATGAGATGGACCTGTACAAGCGCA
TGATGGACAAGCTGCGACAGAACCGCCTTGAGTTCCAGAAGGAGCGGGAGGCGACGCAGGAGCTCATCGAGGACT
TGCGGAAGGAGCTGGAGCACCTGCAGATGTACAAGCTGGACTGCGAGCGGCCAGGCAGGGGCCGCAGTGCCTCCT
CTGGCCTAGGCGAGTTCAATGCCAGGGCCCGCGAGGTGGAGCTCGAGCACGAGGTCAAGCGGCTCAAGCAGGAGA
ATTATAAGCTGCGGGATCAGAACGACGACTTGAATGGGCAGATTTTGAGCCTCAGCCTCTACGAAGCAAAAAACC
TCTTTGCTGCCCAGACTAAAGCCCAGTCTCTGGCTGCGGAGATAGACACCGCCTCGCGCGATGAGCTAATGGAAG
CCCTGAAGGAGCAGGAGGAGATCAACTTCCGGCTGAGGCAGTACATGGACAAGATTATCCTCGCCATCCTGGACC
ACAATCCCTCCATCCTCGAGATCAAACACTAAGGCACGGGGCTGGCTGCAGAGCAGCCTTAGGACCCTGGGACCA
AGGGCAGACCCTGCCCAAGGATGCAGGCCTAAGCCGGGCCTCACACTCACACTGTAAATGTCTCTCTGGCCACCA
TGCGTTACGTGTACCCGTGTATATGTGGGGAGGCTGTGCACACGAGCGAGGGGTGAGTGGCCGTGGCTGTGGGCA
GCATCCACACGGTTAGCCGTGCATGCACTTTGTGGCCCCTTTGCAAGGGGCAGAGGGTACTGGAAGTGGGAGGAG
GCAAGGTCTGCTATCAGGAGTTACTGTAAAAACAAGAACTGGAAGCTCGTGTTTCCGGTACTGGGTAAAATGATT
CTACCTCTGGGGATAAGGATTCACATTCGCTCTAGTACGATGGGCTCTTTCACCCCACTCCTAGTCCCCTTGGGA
GTGGGAGCAAAATTGTGATCTTTCCTAGGAGTTTGAATGCCCCATATTTGTGTCCTCGCCAGCTCTTTGGCCACC
TTTCAAGCCCCAGTGTTCAAGCTCAGAGAGGATGAAGGGGCATCTGGAGGGTCCATGAGATGGGGCCCTCACCAA
ATGCCTTGGCCACCGGCCAGCAGCCCTCTGTGATGTGTGTGCAGAGTGAACAGAGGACTCAGGTTTCATAGCAGC
TAGTGCGGGGCATCCTCATCCTGTACCTATAGAGTTCGTGCACTCCCCCATCCATGCTACCTACCTCCCCGTTTC
TGTTTCAGTTTTAAGACAATGAAGCAGCATTCACTGCGTCATTGTAACATGAAGGGATAAAAATGAAGGAGAAGG
AGGGTTTGGGATGGGTGTCTAAGGCAGGAGTTGACATCGGGCAACCAAAGAAATGAGTTTTGGGGAGGAACACAA
CTCCCATCCCAGTCAGTTTCCTTCCCATGGCTGCATCTTAAGATGGATGCACGGAGAAACCGTCTGCCTGGCTCC
CTGTCTTCATTCTCCACGCAGCCTGGTGATGGCAGGCCTGGGTTTGGATTTCAGAATCCTAGCTCCGGGCTCCAC
TCGTGTGGCAGCAAGACTGCTTCGTTCCAGCGTTTAGAAACACACCTGTATTGATTCTCAGCCAGGGGAGCACT
CGCTGCACTGGTGGGAGGCGGTTGGGAAAGTTGCAGGAAAACCTTAGTCTTCCATCCTTCTGACCCATGGTGGAA
ATTCACACCATGGATTTTTAATGGATCTTTGTTCTAGGCAGCTGGGAATAGACATGGTACTTACCTTAGAGTTTT
CCAATTTATCTCAATTTTATATGGCTTGTGATTCATTTTCTTAATCCAAATATATATAAACGTGTGTGGTCTTAT
TCTTCCCCCTGCAGTTTCTTGCTTTCTTCAGCACATCTTATAGTATGAGAAGGAAGGTTTGGGCATGTTGGGAAG
GGCGGTGGAGGGGGAGTTGCAGAAAGAGAGGGCAGTGAGGGTGAGGAGAGGGGATCTGGGGACTTGGGTGTGACA
CCTGCTTGACAGAGGCAGGGCTGTGGCCAGGACCAACCTTCAATTCCATTCCAATCAGCCTTTGCATTTGTTGGA
TCTCGTGGCTTCTTTTTAATCTTTTGTTGGGGATTAGTTTCATGCTGCACATAATGGGGTTGCACTGGTCTGACC
CAGGACTTTGGAGCCACCCACACTGGGAAGACTAGGCTAGGCAGTCGGTCTTCTAGGAGTTTCTCAGCCCCTTAG
GACGCGGGTCTCCTTGGGCTCCCCCAAGGGTTCTGCGAAGAGGCAGTGGAAGAAGGCATGAGGAGAGGGTCTCTT
GAGAATTTGCCAATAGGAAGGAGTGGCCACGGCTGAAAGGAACAAGACAGATCCTGACATAGCTTTGGCCTGGGT
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